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SALARIES 1983

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1983 SURVEY OF SALARIES AND EMPLOYMENT

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INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1983 Comprehensive Salary and Employment Status Survey. A summary of the 1983 findings was published in the July 4, 1983 issue of Chemical and Engineering News.

At the request of the ACS Committee on the Handicapped, this year's survey included questions concerning handicaps. Later this year, the Committee on the Handicapped will issue its report examining responses to the questions.

General oversight of the survey and its analysis was provided by the ACS Council Committee on Economic Status, headed by Dr. Gerhard Meisels. The Committee expresses its gratitude to the more than 12,700 ACS members who provided an invaluable service to the profession by completing the survey questionnaire.

Dr. Jack Kay, a member of the Committee, and John Robert Jones wrote the Summary and Comment on the following pages. John Robert Jones, Harry Foxwell, and Sandy Schowgurow, of the ACS Office of Manpower Studies, prepared this report.

June, 1983

SUMMARY AND COMMENT

by Jack G. Kay and John Robert Jones*

EMPLOYMENT

Unemployment of chemists is worse than at any time since the 1976 recession. After hovering around 1% between 1979 and 1981, this year the unemployment rate climbed to 2.2%, up from 1.5% in 1982.

RECRUITING

The decline in the help wanted and classified and display advertising in Chemical and Engineering News since the first quarter of 1982 corresponds with the decline in the employment of chemists. A recent canvass of the employment status of new PhD chemistry graduates, carried out at the request of the Committee on Economic Status, showed that among the 632 citizens and/or permanent residents reported, 46.7% have permanent employment, 39.2% have accepted postdoctoral fellowships or other temporary employment, and 13.3% were still seeking employment as of April 22, 1983. Since this was the first survey of its kind, it is not clear if this unemployment rate is uncharacteristically high for this time of year.

According to the College Placement Council Salary Survey, March 1983, the decrease in the number of job offers since last year had the greatest impact on BS chemical engineers. Job offers made to BS chemical engineers dropped from 2,025 offers in 1982 to 458 offers in 1983. The comparable figures for BS chemists were 48 offers this year in contrast with 85 last year. The number of job offers made to PhD chemical engineers fell slightly from 23 to 19. Offers made to PhD chemists numbered 41 this year compared with 78 last year.

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*Dr. Kay is professor and head of chemistry at Drexel University and is a member of the ACS Committee on Economic Status.

John Robert Jones is manager of the ACS Office of Manpower Studies.

UNEMPLOYMENT RATES FROM 1983 SURVEY

Sex. Slightly more than 3% of women ACS members were unemployed compared with 1.9% of the men. In 1982, 2.7% of women chemists were seeking full-time employment compared with 1.3% of the men (see Tables 7.2.1 and 7.2.2).

Highest Degree. Joblessness is less pervasive as the degree level increases: 2.9% of BS, 2.0% of MS, and 1.8% of PhD chemists were seeking employment. The comparable unemployment figures in 1982 were: 2.2% of BS, 1.3% of MS and 1.2% of PhD chemists (see Table 7.2.0).

Race. In 1982, both minority and non-minority groups had an unemployment rate of roughly 1.5%. This year 3.3% of minority chemists are seeking employment as compared with 2.1% of non-minority chemists. The growth in unemployment had its strongest impact on minority women chemists. Five percent of minority women chemists and 3.1% of non-minority women chemists were unemployed compared with 2.9% of minority men chemists and 1.9% of non-minority men chemists. (See Table A at the end of this article.)

Work Specialty. Environmental chemistry had the largest proportion of unemployed chemists while biochemistry and organic chemistry had the smallest percent unemployed (Table 7.8.0). In comparison with last year, organic and polymer chemists experienced the greatest increase in unemployment rates. The percent of unemployed organic chemists doubled from 1.1% to 2.2%, and unemployed polymer chemists more than doubled from 1.3% to 2.8%.

Employer. Chemists whose most recent employer was a hospital, a non-profit research organization, or who were self-employed are more likely to be unemployed than those who worked for private industry, academia, or government. Almost 3.6% of chemists who worked for these "other" employers were unemployed, while 2.2% of industrial, 1.5% of academic, and 1.2% of government chemists were seeking employment (see Table 7.6.0).

Teaching represents the highest level of job security whereas marketing has the highest unemployment rate. (See Table B at the end of this article.) This finding deviates from the previous statement which indicated that government chemists were the least likely to be unemployed. However, since research and development, which has the second largest joblessness rate, is performed by all employers, teaching appears to be the most secure work function.

In view of the recent publicity given to the need for improving science education in high schools, it is interesting to note that 0.9% of the respondents are high school teachers and that 86.0% were employed full-time. In addition, 3.5% of these chemists were unemployed and 5.8% were employed part-time. Thus, high school teachers represent the largest fraction of members working part-time. One can speculate that the large percentage of part-time workers resulted from anticipated declining school enrollments making it undesirable to overstaff faculty positions.

Age. The unemployment rate for chemists who are 30 to 59 years old ranges from 1.6% to 2.3% - except for those 35-39, who have an unemployment rate of 2.6%. (See Table 7.3.0.) Unemployment is virtually non-existent for chemists 65 years old and over. However, joblessness is critical for chemists under the age of 30 (2.5% of those 20-24 and 2.7% of those 25-29 were unemployed). For the 25-29 age group, 9.6% have postdoctoral employment and for the 30-34 age group, 5.5% are employed in a postdoctoral capacity. Presumably, if it were not for the availability of postdoctoral positions, unemployment could be a much more severe problem at a critical time in the beginning of a young chemist's career.

Citizenship. Some U.S. chemists maintain that foreigners are competing significantly with citizens for chemistry positions. However, of those holding full-time employment, only 0.5% of those jobs are held by non-U.S. citizens. (See Table 7.5.0.) Among chemists holding postdoctoral positions, 74.5% are citizens, 8.9% are permanent residents and 16.2% are non-U.S. citizens. Slightly less than 90% of U.S. chemists, 87% of permanent resident chemists, and 46% of non-U.S. citizen chemists are employed full-time. Given these figures, it is difficult to support an argument that foreigners are competing significantly with U.S. citizens for jobs in chemistry.

SALARIES

Salaries tend to reflect the marketplace. For chemical engineers, this year only PhDs are earning median annual salaries higher than last year's (up 8% from $45,000 to $48,500). Increases in median annual salaries occurred at all degree levels for chemists, but the largest increase was only 7% (from $37,500 to $40,000 for PhDs).

EMPLOYER

Industrial Chemists. Median salaries for MS chemists in private industry rose faster than did those for other degree levels and increased 7.6% from $33,000 in 1982 to $35,500 in 1983. Industrial BS chemists' salaries grew by 6.6% from $29,000 to $30,900 and PhD chemists' salaries rose by 6.4% from $42,000 to $44,700. After allowance for inflation, median salaries for chemists showed only modest gains of 2.9%, 3.8% and 2.7% for BS, MS and PhD chemists, respectively. (See Tables 1.2.1-1.2.3).

For chemists working in private industry 1983 salaries were

$30,900 for the BS, up 6.6% from 1982, up 2.9% in constant dollars.
$35,500 for the MS, up 7.6% from 1982, up 3.8% in constant dollars.
$44,700 for the PhD, up 6.4% from 1982, up 2.7% in constant dollars.

(Prices as measured by the official Consumer Price Index for Urban Workers increased 3.6% between March 1982 and March 1983.)

At each degree level, industrial chemists working as R&D and general managers earn more than chemists working as researchers. With the exception of the MS chemists, general managers have higher salaries than R&D managers (see Tables 3.4.1 - 3.4.9).

Last year, at all these degree levels, chemists working with polymers generally earned more than chemists in other specialties but this year, salaries vary by degree and specialty. At the BS level, physical chemists have the highest median salaries of $38,000. Inorganic chemists earn the highest salaries of $40,400 at the MS level. For both the BS and MS chemists, biochemists are paid the lowest salaries of $24,000 and $30,000 respectively. At the doctorate level, environmental chemists earn the most ($47,000) and analytical chemists the least ($40,690) (see Tables 3.5.1-3.5.9).

Chemists working in the petroleum industry, which employs almost 7% of all industrial chemists, are paid the highest salaries. In general, the chemical industry ranks second in salaries and employs about one-third of all responding industrial chemists. (See Tables 3.6.1-3.6.3.)

Academic Chemists. Median salaries for academics vary by rank and school type. Chemists teaching in non-doctorate granting chemistry departments earn less than those teaching in doctorate granting departments. Professors in PhD granting schools earned, on average, $44,000 whereas those of the same rank in non-PhD granting schools earned only $31,275. The differences in salaries between school types decreases with rank: associate professors at PhD granting schools earned approximately $32,000 while those in non-PhD granting schools earned $25,000. (See Tables 4.1.0-5.1.0).

Variations in the salaries between academic ranks and school type, however, are small in comparison to the difference between academic chemists and industrial chemists. The typical PhD industrial chemist who received the BS 20-24 years ago earns $49,800 while a professor with the same background earns $35,000 and an associate professor receives only $28,975. (See Tables 1.2.3 and 4.2.0).

Government Chemists. Chemists employed by a federal, state or local government represent 9% of all chemistry respondents. As of March 1, 1983 median salaries for member chemists in government were:

$29,000 for BS, up 10.2% from 1982, up 6.4% in constant dollars.
$31,700 for MS, up 2.2% from 1982, down 1.3% in constant dollars.
$43,000 for PhD, up 7.5% from 1982, up 3.8% in constant dollars.

Although government BS chemists made the largest gain, the median salaries for government chemists are still less than those working in industry. These salary differences, however, may be attributable to the variations in work experience among the respondents in these groups. (See Tables 1.3.1-1.3.3.)

Sex. Although men and women, at all three degree levels, earn similar salaries at the beginning of their careers, experienced women earn substantially less than men. (See Tables 1.1.1 - 1.1.2.)

The difference between salaries paid to women and those paid to men of comparable experience is not so great as that between the overall averages. Part of the reason that women's overall average salary is less is that, as a group, the ACS women are younger than the men. This relative youth of the women in chemistry undoubtedly reflects changes in hiring practices that began decades ago, as well as the changes in the number of women chemists.

Another partial explanation is that past discrimination continues to influence today's salaries. When today's middle-aged chemists began their careers, male chemists were paid more than their female colleagues as a matter of course, and those men and women continue to feel the effects of the difference between their starting salaries. In fact, this discrimination will survive unless women receive raises considerably larger than for men of comparable experience.

As more women enter the profession, the hope is that the unfair treatment women suffer will disappear. This series of surveys provides the profession's best measure of sex discrimination and of our progress, however slow and belated, toward equality.

TABLE A

EMPLOYMENT STATUS OF CHEMISTS ACCORDING TO RACE

	Minority		Non-Minority	
	Men	Women	Men	Women
Postdoctoral	5.9	6.4	2.0	4.1
Full-time Employed	89.6	84.4	93.9	85.2
Unemployed Seeking	2.9	5.0	1.9	3.1
Unemployed Not Seeking	0.6	0.0	1.0	3.1
Part-time	1.0	4.3	1.2	4.5

TABLE B

UNEMPLOYMENT RATE OF CHEMISTS BY WORK FUNCTION

Most Recent Work Function	Percent Unemployed
R&D[1]	1.9%
Teaching[2]	1.6
Management[3]	1.9
Marketing	2.6
Production & QC	3.3
Other	4.1

1. Includes Basic Research and Applied R&D
2. Does not include high school teachers
3. Includes R&D Management and General Management

A METHOD FOR ESTIMATING AVERAGE SALARIES

A compact summary of the information in this report is possible through a statistical technique known as multiple linear regression. This technique identifies which characteristics have the greatest effect on salaries, and results in a formula for estimating the average salary of respondents with certain characteristics.

For industrial chemists responding to the 1983 survey, the three characteristics which account for most of the variation among salaries are highest degree, experience (years since B.S. is used to measure experience in ACS surveys), and work function. For academic chemists, the most important characteristics were rank, the highest degree offered by the respondent's department, and the control (public or private) of the respondent's institution.

Table I displays the factors needed to estimate the average salary for any group of respondents who are industrial chemists with any combination of the listed characteristics.

For example, to estimate the average salary in March 1983 for industrial chemists with the doctorate, 15 to 19 years of experience, and working in R&D management, find the corresponding factors in Table I and multiply them together with the base salary for all industrial chemists:

($20,563) x (1.271) x (1.666) x (1.165) = $50,726

Table II displays factors associated with salaries of academic chemists responding to the survey. To estimate the approximate average salary in March 1983 of associate professors at public colleges whose departments offer the doctorate, multiply the corresponding factors together with the base salary for all academic chemists:

($32,620) x (.774) x (1.000) x (1.319) = $33,302

Averages estimated using this method should be interpreted with caution, for two reasons. First, and more important, is that the relationship between salary and employment characteristics is not exact. Variations due to employer (such as size of company, and geographic location), or to individual differences (such as ability, and number of people supervised), and other characteristics prohibit perfect estimation of an individual's salary. Secondly, the factors shown in the tables are estimates derived from a sample of chemists rather than the entire population of chemists, and as such are subject to the imprecision associated with sampling procedures.

TABLE I

SALARY FACTORS FOR INDUSTRIAL CHEMISTS

BASE SALARY	$20,563
DEGREE:	
Bachelors's	1.000
Master's	1.051
Doctorate	1.271
MATURITY: (Years Since Receiving B.S.)	
0-1	1.000
2-4	1.110
5-9	1.131
10-14	1.477
15-19	1.666
20-24	1.817
25-29	1.923
30-34	1.971
35-39	1.947
40 or more	2.012
WORK FUNCTION:	
Basic Research	1.000
R&D Management	1.165
Applied Research	0.972
General Management	1.200
Marketing	1.066
Production	0.916
Forensic/Lab Analysis	0.893
Writing	0.845
Data Processing	0.946
Consulting	0.963
Other	0.961

TABLE II

SALARY FACTORS FOR ACADEMIC CHEMISTS

BASE SALARY	$32,620
RANK:	
Professor	1.000
Associate Professor	0.774
Assistant Professor	0.608
Instructor/Lecturer	0.608
Non-faculty Research Associate	0.616
Unranked Faculty Member	0.683
HIGHEST DEGREE OFFERED IN DEPARTMENT:	
Bachelor's or Master's	1.000
Doctorate	1.319
INSTITUTIONAL CONTROL:	
Public	1.000
Private	1.032

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TECHNICAL NOTES

The target population of the 1983 Comprehensive Salary and Employment Status Survey is those ACS members who have U.S. mailing addresses, are not older than 70, and have neither student nor emeritus status. On January 31, 1983 the ACS membership totalled 127,952, of which approximately 89,000 were eligible for inclusion in the sample. A systematic sample of 22,000 was selected from the target population.

The survey questionnaires were mailed to this sample of 22,000 members by bulk mail during the week of February 14-18. By the April 29 cut-off date, 12,747 (57.9%) usable questionnaires had been returned.

The survey data were processed by the Alpha-Micro computer at the ACS Office of Manpower Studies. Computer programs for the processing were written by Harry Foxwell, Bob Jones, and Sandy Schowgurow.

Definitions

For the purposes of the survey analysis only, the following definitions were used:

Chemist:	a respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 11 of question E on the questionnaire).
Chemical Engineer:	a respondent who indicated a work specialty of chemical engineering (category 1 of question E on the questionnaire).
Unemployed:	a respondent who is unemployed and seeking employment (category 3 of question C on the questionnaire).

This report presents the respondents' principal annual salaries as of March 1, 1983. The respondent's age is given as of March 1, 1983. A respondent's state and geographic region refer to place of residence, rather than place of employment.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. Another useful type of estimate is the confidence interval. Such an interval estimate is illustrated in the following statement: "We assert with 95% confidence that the population proportion is between 0.04 and 0.06." A simple but adequate formula for a confidence interval centered on the sample proportion is

$$p(\text{lower}) = \hat{p} - z[\hat{p}(1-\hat{p})/n]^{1/2}$$

$$\text{and } p(\text{upper}) = \hat{p} + z[\hat{p}(1-\hat{p})/n]^{1/2}$$

where $p(\text{lower})$ = lower boundary of the interval
$p(\text{upper})$ = upper boundary of the interval
$\hat{p}$ = the sample proportion
z = a function of the level of confidence and is found in a table of the standard normal distribution
n = the sample size

Inspection of the formula shows that the width of the confidence interval is inversely proportional to the square root of the sample size, so that proportions derived from small samples are not as precise as ones drawn from large samples. Also, if non-respondents differ from respondents with regard to the characteristics under consideration, the formula will overstate precision because the formula is based on an assumption of 100% response.

Suppose a confidence interval is required for a group containing 1900 sample members. If the sample contains 95 persons with a specific characteristic, then the numbers that go into the formula are $\hat{p}=95/1900=0.05$ and $n=1900$. For a 95% confidence interval, z is about 2. Putting these numbers into the formula above we have

$$\begin{aligned} p(\text{lower}) &= \hat{p} - z[\hat{p}(1-\hat{p})/n]^{1/2} \\ &= 0.05 - 2[0.05((0.95)/1900]^{1/2} \\ &= 0.05 - 0.01 \\ &= 0.04 \end{aligned}$$

$$\begin{aligned} \text{and similarly, } p(\text{upper}) &= 0.05 + 0.01 \\ &= 0.06 \end{aligned}$$

Thus, a 95% confidence interval for p is from 4.0% to 6.0%. Although we cannot say that the population proportion is exactly 5.0%, we can be confident that it is between 4.0% and 6.0%. The 95% level of confidence means roughly that if this procedure were followed a large number of times using different samples of the same size, the population proportion would be within the calculated interval about 95% of the time.

Small Cell Counts

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. In general, a cell containing fewer than 15 responses does not provide a useful estimate of the median salary, and a cell containing fewer than 25 responses does not provide a useful estimate of the 25th or the 75th salary percentile.

Percentiles

If a sample of size n is arranged in ascending order of magnitude, the jth percentile Pj, j = 1,2...or 99 is given by the (j(n+1)/100)th value. If (j(n+1)/100) is not an integer, then the jth percentile is a weighted average of the two values whose ranks are closest to (j(n+1)/100).

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that present information about PhD respondents should show the same total number of PhDs. They might, however, show different totals. To illustrate, if one table groups the PhDs according to specialty and the other groups them according to geographic region, the totals will differ unless the number who did not indicate their specialty is the same as the number who did not indicate their geographic region.

Comparing Salaries

Often questions arise concerning B.S. chemists' salaries as compared with M.S. chemists', or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the sample. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample size and the magnitudes of the sample standard deviations.

References for statistical tests of significance can be found in Numerical and Statistical Techniques, by J. H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and other similar texts.

Non-Response to Years Since B.S.

Nearly ten percent of respondents with advanced degrees did not indicate the year of their bachelor's degree. Tables which display the respondents' years-since-B.S. will therefore show about a ten percent non-response to this item at the M.S. and Ph.D. level.

GEOGRAPHIC REGIONS

PACIFIC

- Alaska
- California
- Hawaii
- Oregon
- Washington

MOUNTAIN

- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

WEST NORTH CENTRAL

- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

WEST SOUTH CENTRAL

- Arkansas
- Louisiana
- Oklahoma
- Texas

EAST NORTH CENTRAL

- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

EAST SOUTH CENTRAL

- Alabama
- Kentucky
- Mississippi
- Tennessee

MIDDLE ATLANTIC

- New Jersey
- New York
- Pennsylvania

SOUTH ATLANTIC

- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

NEW ENGLAND

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

TABLE-1.1.0

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	27,250	28,704	33,880	40,020	48,950	52,000	58,200	60,000	57,000	64,100	---	49,500	- 90th %-ile
	23,040	25,000	30,000	35,000	41,225	44,100	48,300	48,950	48,100	51,250	---	39,500	- 75th %-ile
	19,400	22,000	25,000	30,000	35,000	37,800	40,000	40,000	39,000	43,000	17,500	30,000	- 50th %-ile
	15,075	18,800	21,600	25,000	27,550	31,000	32,156	34,000	32,250	35,000	---	23,700	- 25th %-ile
	13,100	15,350	18,541	21,080	23,430	25,340	26,360	26,471	27,250	26,600	---	19,384	- 10th %-ile
	19,637	21,986	25,853	30,802	35,727	38,663	41,563	42,539	41,686	44,663	17,500	32,612	- Mean
	5,463	5,149	6,157	9,025	10,757	11,709	12,592	14,106	14,882	14,724	---	12,984	- Std Dev
	74	379	455	317	220	214	178	305	113	85	1	2,341	- Count
Masters	---	28,842	35,000	41,000	50,000	53,780	60,000	58,000	65,000	59,200	55,000	51,000	
	---	26,750	31,000	36,000	40,000	42,700	49,500	50,000	48,000	49,000	43,475	41,922	
	---	23,784	26,000	30,353	33,900	37,850	41,000	40,200	39,000	42,000	34,000	33,000	
	---	20,310	23,000	25,400	29,000	30,000	30,000	34,050	31,000	30,000	26,731	26,425	
	---	15,150	18,500	20,500	23,120	25,690	22,563	26,069	26,400	25,900	21,000	21,500	
	---	23,144	27,029	31,213	35,205	38,834	40,372	42,156	42,074	40,946	36,079	35,274	
	---	5,146	7,150	8,607	9,937	12,771	13,462	13,662	14,729	12,796	14,130	12,649	
	0	52	251	283	195	150	131	224	83	77	146	1,592	
Doctorate	---	---	39,880	46,650	54,000	60,000	65,000	68,000	70,000	76,700	62,000	60,000	
	---	---	36,150	41,000	46,500	50,000	55,000	58,000	58,700	63,000	50,030	50,000	
	---	---	33,600	35,000	39,000	41,000	45,000	47,000	48,050	50,000	40,000	40,000	
	---	---	29,317	27,813	30,000	31,500	35,000	36,540	38,000	40,500	33,000	32,000	
	---	---	21,000	21,150	23,000	25,827	29,608	29,901	30,035	32,600	26,000	25,000	
	---	---	32,367	34,822	39,130	42,153	46,259	48,026	49,665	52,853	42,979	41,968	
	---	---	6,873	10,031	12,366	13,737	14,943	15,323	16,303	16,825	14,984	14,572	
	0	0	401	724	866	783	537	606	246	275	472	4,910	
No Response	---	---	---	---	---	---	---	---	---	---	61,036	61,036	
	---	---	---	---	---	---	---	---	---	---	48,500	48,500	
	---	---	---	---	---	---	---	---	---	---	40,000	40,000	
	---	---	---	---	---	---	---	---	---	---	31,200	31,200	
	---	---	---	---	---	---	---	---	---	---	21,176	21,176	
	---	---	---	---	---	---	---	---	---	---	41,198	41,198	
	---	---	---	---	---	---	---	---	---	---	17,039	17,039	
	0	0	0	0	0	0	0	0	0	0	57	57	
TOTAL	27,250	28,781	37,500	45,000	52,486	58,520	63,000	65,000	67,700	70,000	62,000	57,500	
	23,040	25,000	33,900	39,115	45,000	48,000	52,000	54,000	54,425	60,000	50,000	46,000	
	19,400	22,000	28,020	33,000	37,000	40,000	43,000	43,000	43,058	46,000	39,100	36,000	
	15,075	19,000	23,000	26,000	29,530	31,000	33,425	35,000	35,265	38,600	31,000	28,000	
	13,100	15,360	19,132	21,000	23,200	25,724	27,280	28,000	29,443	30,000	23,514	22,000	
	19,637	22,125	28,479	33,088	37,948	41,067	44,359	45,393	46,200	49,162	41,301	38,305	
	5,463	5,156	7,280	9,689	11,876	13,341	14,461	14,943	16,105	16,512	15,243	14,475	
	74	431	1,107	1,324	1,281	1,147	846	1,135	442	437	676	8,900	

TABLE-1.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS -Men Only
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	22,400	25,000	30,000	35,776	43,875	44,778	50,000	48,975	50,000	51,500	---	40,788	- 75th $-ile
	19,600	22,000	26,400	30,000	36,800	39,000	41,000	40,000	40,200	43,000	17,500	32,000	- 50th $-ile
	16,000	19,000	22,000	26,000	31,000	31,840	34,357	34,091	34,613	35,000	---	25,000	- 25th $-ile
	19,790	22,327	26,630	31,541	37,638	39,456	42,552	42,917	43,502	44,669	17,500	34,401	- Mean
	5,103	5,364	6,269	9,326	10,514	11,319	12,362	14,073	15,085	13,928	---	13,207	- Std Dev
	49	227	337	268	172	181	161	284	94	78	1	1,852	- Count
Masters	---	26,000	31,587	36,113	42,975	43,250	50,000	50,000	49,243	50,000	45,125	43,000	
	---	22,750	27,000	30,500	35,000	37,353	42,010	41,104	40,800	42,000	35,750	35,000	
	---	19,213	23,065	26,000	30,000	30,000	32,000	35,000	35,000	32,155	28,750	28,000	
	---	22,631	27,514	31,601	36,458	39,319	42,115	43,352	44,255	41,990	38,641	36,731	
	---	4,634	7,546	8,407	9,709	13,001	13,292	13,445	14,249	12,840	14,317	12,853	
	0	28	188	236	156	134	113	203	69	67	110	1,304	
Doctorate	---	---	36,000	41,010	47,000	50,000	55,000	58,000	60,000	63,000	52,000	50,000	
	---	---	33,840	35,100	40,000	42,000	45,840	48,000	49,100	50,800	41,000	40,300	
	---	---	29,352	28,000	31,000	32,000	35,900	37,000	40,000	41,000	34,000	32,622	
	---	---	32,488	35,224	39,737	42,793	46,854	48,485	50,628	53,260	43,792	42,665	
	---	---	6,817	10,044	12,409	13,713	14,607	15,274	16,279	16,844	15,026	14,612	
	0	0	339	642	793	724	497	577	220	263	425	4,480	
No Response	---	---	---	---	---	---	---	---	---	---	49,500	49,500	
	---	---	---	---	---	---	---	---	---	---	40,137	40,137	
	---	---	---	---	---	---	---	---	---	---	32,617	32,617	
	---	---	---	---	---	---	---	---	---	---	43,246	43,246	
	---	---	---	---	---	---	---	---	---	---	16,835	16,835	
	0	0	0	0	0	0	0	0	0	0	48	48	
TOTAL	22,400	25,000	34,000	40,000	46,000	49,800	53,000	55,000	55,000	60,000	50,000	47,631	
	19,600	22,000	29,275	33,000	38,200	40,000	44,000	44,000	45,000	46,350	40,000	37,800	
	16,000	19,000	24,000	26,944	31,000	32,000	35,000	35,304	37,000	39,000	32,617	30,000	
	19,790	22,360	29,121	33,616	38,958	41,764	45,261	46,020	47,731	49,767	42,732	39,670	
	5,103	5,281	7,299	9,724	11,848	13,315	14,125	14,857	15,965	16,398	15,181	14,482	
	49	255	864	1,146	1,121	1,039	771	1,064	383	408	584	7,684	

TABLE-1.1.2

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS -Women Only
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	24,500	24,489	27,000	31,325	32,693	38,000	43,130	39,100	39,000	51,500	---	28,747	- 75th %-ile
	19,000	21,102	23,000	26,000	26,050	31,000	29,900	31,050	34,560	46,000	---	24,000	- 50th %-ile
	14,000	18,105	20,500	22,000	24,000	26,000	24,438	26,050	24,700	26,000	---	20,000	- 25th %-ile
	19,337	21,508	23,514	26,924	28,850	33,463	32,527	34,556	32,705	44,605	---	25,540	- Mean
	6,207	4,746	5,238	5,669	8,885	12,143	10,347	13,908	10,000	23,357	---	9,046	- Std Dev
	25	148	115	48	46	31	14	17	19	7	0	470	- Count
Masters	---	27,600	29,496	35,600	33,400	41,979	39,300	36,000	38,938	43,700	35,000	33,700	
	---	24,500	24,619	28,800	28,300	39,100	27,500	27,500	28,000	29,000	26,000	27,000	
	---	21,000	21,375	23,600	24,000	25,742	21,680	21,000	23,330	25,750	21,300	22,000	
	---	23,650	25,540	29,267	29,531	34,775	29,213	28,223	31,328	33,283	27,793	28,299	
	---	5,838	5,656	9,403	9,378	10,080	8,871	8,573	12,520	10,960	10,036	8,994	
	0	23	62	47	35	16	17	18	14	9	31	272	
Doctorate	---	---	36,850	37,907	39,000	41,250	42,875	42,000	45,594	52,831	40,656	39,000	
	---	---	33,450	32,700	33,000	32,140	32,000	35,346	33,500	37,359	34,500	33,000	
	---	---	29,275	23,000	25,000	25,675	24,250	25,000	30,000	31,500	26,000	25,650	
	---	---	31,938	31,817	32,883	33,777	34,642	35,513	37,673	42,508	34,194	33,545	
	---	---	7,132	9,469	9,896	11,773	13,322	13,264	11,901	14,029	11,227	10,671	
	0	0	58	79	65	54	28	18	21	9	41	373	
No Response	---	---	---	---	---	---	---	---	---	---	45,000	45,000	
	---	---	---	---	---	---	---	---	---	---	27,060	27,060	
	---	---	---	---	---	---	---	---	---	---	16,269	16,269	
	---	---	---	---	---	---	---	---	---	---	28,935	28,935	
	---	---	---	---	---	---	---	---	---	---	14,792	14,792	
	0	0	0	0	0	0	0	0	0	0	8	8	
TOTAL	24,500	24,869	32,000	36,725	36,025	41,500	42,000	38,350	39,513	47,200	39,500	35,000	
	19,000	22,000	25,000	30,000	29,300	32,280	30,550	31,050	32,177	37,359	30,000	26,900	
	14,000	18,890	21,000	23,000	24,000	25,950	24,000	24,500	25,750	28,025	23,100	22,000	
	19,337	21,796	26,128	29,778	30,809	33,839	32,576	32,730	34,280	39,774	31,188	28,891	
	6,207	4,942	6,776	8,769	9,586	11,538	11,563	12,323	11,559	16,353	11,453	10,239	
	25	171	235	174	146	101	59	53	54	25	80	1,123	

TABLE-1.2.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	22,910	25,335	30,678	36,000	45,000	46,750	50,550	50,000	49,000	53,500	---	41,465	- 75th $-ile
	20,424	22,570	27,300	31,200	37,000	39,880	43,000	40,000	40,000	43,000	17,500	33,000	- 50th $-ile
	16,875	19,950	23,500	26,655	32,187	32,092	38,000	35,000	35,000	35,650	---	25,515	- 25th $-ile
	20,390	22,886	27,600	32,481	38,503	40,559	44,675	43,923	43,731	46,055	17,500	35,360	- Mean
	4,356	5,176	6,033	9,254	10,837	12,138	12,238	14,637	15,646	13,860	---	13,530	- Std Dev
	38	186	267	210	134	137	116	234	80	65	1	1,468	- Count
Women	25,029	25,000	28,000	31,805	37,900	40,875	43,710	42,000	42,000	49,175	---	29,400	
	20,500	22,378	23,000	26,450	27,000	31,750	26,400	35,000	36,000	38,000	---	24,500	
	15,000	20,000	20,778	23,925	25,000	27,125	25,175	27,100	29,000	24,583	---	21,000	
	20,384	22,464	24,049	27,823	31,052	35,031	31,699	37,850	35,827	37,039	---	26,187	
	5,868	4,219	5,212	5,475	9,597	14,510	11,326	15,807	8,811	13,183	---	8,678	
	22	112	98	38	31	18	8	11	15	6	0	359	
No Response	---	27,460	---	---	---	---	---	52,000	---	---	---	46,500	
	---	18,200	27,350	---	29,530	47,500	29,750	51,000	---	---	---	30,000	
	---	15,300	---	---	---	---	---	46,000	---	---	---	20,200	
	---	20,320	27,350	---	29,530	47,500	29,750	49,667	---	---	---	33,236	
	---	6,750	4,738	---	1,372	24,749	23,688	3,215	---	---	---	15,493	
	0	4	2	0	2	2	2	3	0	0	0	15	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,932	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	
	60	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-1.2.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	27,750	32,425	37,000	45,400	46,905	55,000	53,000	60,213	51,400	46,600	45,000	- 75th %-ile
	---	24,284	28,000	32,000	38,050	40,250	46,000	43,250	44,000	45,000	38,000	37,000	- 50th %-ile
	---	22,000	24,355	28,000	32,000	35,000	39,018	36,409	38,500	38,000	31,000	30,000	- 25th %-ile
	---	23,704	28,680	32,806	38,917	43,139	46,416	45,769	48,726	45,395	41,106	38,995	- Mean
	---	4,780	5,959	7,123	9,327	13,859	13,270	12,937	14,875	11,068	14,212	12,922	- Std Dev
	0	20	146	165	114	88	73	154	45	47	73	925	- Count
Women	---	28,455	30,000	40,050	37,000	44,250	42,000	40,000	47,338	48,000	32,000	35,100	
	---	25,000	25,000	31,500	31,400	40,900	30,000	36,000	33,064	39,850	26,000	29,000	
	---	22,850	23,000	25,438	28,000	35,800	26,500	31,000	26,750	28,925	23,000	24,440	
	---	25,736	26,579	32,234	33,499	38,850	32,202	35,429	36,310	38,925	28,426	30,553	
	---	3,766	5,138	8,192	9,219	7,747	8,035	4,158	13,208	10,011	9,205	8,397	
	0	18	47	34	21	8	9	7	8	4	19	175	
No Response	---	---	---	---	44,213	---	---	---	---	---	30,500	40,000	
	---	25,900	---	---	33,525	---	---	43,250	---	40,000	29,000	31,200	
	---	---	---	---	30,300	---	---	---	---	---	20,000	29,000	
	---	25,900	---	---	36,013	---	---	43,250	---	40,000	26,500	34,177	
	---	---	---	---	7,747	---	---	6,010	---	---	5,679	8,591	
	0	1	0	0	4	0	0	2	0	1	3	11	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	

TABLE-1.2.3

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	---	38,000	43,788	50,000	58,114	61,000	65,000	65,000	70,000	55,000	55,000	- 75th %-ile
	---	---	34,980	39,121	44,600	50,000	52,000	55,000	54,000	57,000	45,000	45,000	- 50th %-ile
	---	---	33,000	35,000	39,525	42,600	45,925	45,000	45,050	45,750	37,625	37,773	- 25th %-ile
	---	---	35,415	39,642	45,793	51,011	54,757	56,130	56,980	58,933	48,422	47,880	- Mean
	---	---	4,396	7,584	10,586	12,578	14,171	14,375	16,917	17,639	14,474	14,059	- Std Dev
	0	0	243	388	436	319	221	277	108	110	244	2,346	- Count
Women	---	---	38,000	41,000	46,500	48,916	59,400	---	---	---	38,000	41,000	
	---	---	35,000	37,200	39,000	40,400	43,000	43,600	54,000	46,000	35,000	36,800	
	---	---	33,000	33,000	35,420	33,600	32,000	---	---	---	31,680	33,090	
	---	---	35,157	38,003	41,475	42,886	45,556	43,600	54,000	46,000	35,572	38,763	
	---	---	3,779	5,936	9,692	12,377	13,407	33,658	28,284	---	5,182	8,995	
	0	0	40	41	21	14	9	2	2	1	15	145	
No Response	---	---	---	---	---	---	93,750	60,100	70,000	---	62,000	68,000	
	---	---	36,500	37,000	41,000	---	61,500	49,700	69,500	67,500	45,000	49,000	
	---	---	---	---	---	---	43,500	42,870	50,000	---	37,000	41,120	
	---	---	36,500	37,000	41,000	---	66,250	50,890	63,167	67,500	48,000	54,670	
	---	---	---	---	---	---	26,688	9,128	11,405	---	12,767	16,995	
	0	0	1	1	1	0	4	4	3	1	3	18	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,541	14,376	14,012	
	0	0	284	430	458	333	234	283	113	112	262	2,509	

TABLE-1.3.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	19,193	24,250	28,350	28,150	38,500	40,000	42,957	44,500	49,150	45,000	---	38,500	- 75th %-ile
	14,500	20,000	21,809	26,500	33,000	37,000	35,000	38,500	33,850	40,000	---	31,000	- 50th %-ile
	13,369	15,825	19,840	22,050	28,000	31,270	29,500	31,500	24,950	21,504	---	24,595	- 25th %-ile
	15,687	20,626	23,373	25,934	33,187	36,172	36,350	37,941	36,283	37,786	---	31,507	- Mean
	3,088	5,522	5,742	5,069	6,032	6,447	9,195	8,751	11,549	16,100	---	9,878	- Std Dev
	3	14	32	25	23	29	29	33	6	7	0	201	- Count
Women	---	23,675	24,000	27,994	29,625	36,530	43,021	---	---	---	---	28,781	
	---	20,128	20,500	22,607	26,300	29,467	33,000	31,000	22,450	---	---	24,000	
	---	16,366	16,075	18,213	24,000	23,665	22,376	---	---	---	---	20,050	
	---	19,751	20,182	22,938	26,426	30,844	32,759	31,000	22,450	---	---	24,995	
	---	4,068	4,552	5,110	3,887	8,166	10,703	1,414	3,182	---	---	7,456	
	0	10	9	4	8	8	5	2	2	0	0	48	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	49,524	---	---	---	49,524	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	49,524	---	---	---	49,524	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	1	0	0	0	1	
TOTAL	19,193	24,000	26,981	28,150	37,000	39,711	42,436	44,750	45,075	45,000	---	37,200	
	14,500	20,000	21,778	26,000	30,000	36,000	34,000	38,250	28,500	40,000	---	29,000	
	13,369	16,215	18,608	21,300	27,000	30,500	27,975	31,250	24,725	21,504	---	22,938	
	15,687	20,261	22,672	25,521	31,443	35,020	35,822	37,877	32,825	37,786	---	30,328	
	3,088	4,889	5,611	5,092	6,265	7,088	9,343	8,756	11,736	16,100	---	9,847	
	3	24	41	29	31	37	34	36	8	7	0	250	

TABLE-1.3.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	22,108	28,725	35,000	38,587	39,000	43,932	53,000	48,450	48,719	43,125	39,100	- 75th $-ile
	---	20,606	24,121	28,500	32,000	35,124	37,500	45,406	34,093	42,760	31,500	32,000	- 50th $-ile
	---	19,508	18,275	24,000	30,500	32,250	31,550	27,000	29,475	32,880	27,000	26,802	- 25th $-ile
	---	20,740	23,977	29,409	34,053	36,095	36,790	41,119	36,993	41,453	33,220	33,207	- Mean
	---	1,362	5,142	7,445	6,501	6,528	9,109	13,410	10,972	8,481	9,521	9,714	- Std Dev
	0	4	16	34	18	20	20	15	8	4	10	149	- Count
Women	---	---	32,106	---	30,925	41,914	---	41,000	---	---	43,000	39,067	
	---	21,000	24,710	28,000	27,650	31,836	---	31,700	---	36,225	32,000	27,675	
	---	---	19,692	---	24,150	25,656	---	13,800	---	---	20,780	22,650	
	---	21,000	26,016	28,000	27,575	32,515	---	28,833	---	36,225	31,912	29,650	
	---	---	7,358	14,142	3,552	10,439	---	13,825	---	12,975	11,526	9,455	
	0	1	6	2	4	7	0	3	0	2	5	30	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	---	21,750	29,317	35,000	37,504	39,300	43,932	49,250	48,450	46,623	42,500	39,000	
	---	20,931	24,361	28,500	31,750	35,000	37,500	39,600	34,093	42,760	32,000	31,700	
	---	19,765	18,425	24,000	27,975	30,000	31,550	26,938	29,475	29,263	27,000	25,656	
	---	20,792	24,533	29,330	32,875	35,167	36,790	39,071	36,993	39,710	32,784	32,611	
	---	1,185	5,713	7,621	6,523	7,671	9,109	13,884	10,972	9,172	9,830	9,736	
	0	5	22	36	22	27	20	18	8	6	15	179	

TABLE-1.3.3

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	---	33,250	38,041	44,500	50,000	51,162	57,600	63,000	60,600	47,211	50,800	- 75th %-ile
	---	---	30,677	35,000	36,000	45,000	48,000	49,500	53,661	53,300	40,000	43,000	- 50th %-ile
	---	---	27,879	32,000	30,800	38,422	41,000	43,000	43,000	45,000	32,056	35,000	- 25th %-ile
	---	---	30,664	34,978	37,039	44,166	47,006	49,701	52,070	52,633	39,742	43,525	- Mean
	---	---	3,375	5,895	7,851	9,088	8,151	9,951	11,069	10,330	10,344	10,875	- Std Dev
	0	0	14	31	55	59	43	57	19	28	41	347	- Count
Women	---	---	31,659	47,175	35,900	45,804	---	50,027	42,391	---	43,600	43,600	
	---	---	27,117	39,800	32,000	42,564	38,990	42,000	39,005	64,831	40,641	39,000	
	---	---	24,125	37,000	27,750	37,940	---	27,565	33,017	---	28,000	31,353	
	---	---	27,634	41,325	31,860	41,687	38,990	39,437	38,138	64,831	37,414	38,711	
	---	---	4,050	5,581	4,790	5,067	8,471	12,794	5,001	7,311	8,286	10,196	
	0	0	4	4	5	6	2	5	4	2	3	35	
No Response	---	---	---	---	---	---	---	---	---	---	---	60,000	
	---	---	---	---	36,000	46,000	60,000	50,620	59,900	---	69,200	50,620	
	---	---	---	---	---	---	---	---	---	---	---	38,000	
	---	---	---	---	36,000	46,000	60,000	50,620	59,900	---	69,200	51,103	
	---	---	---	---	2,828	---	---	---	---	---	---	12,744	
	0	0	0	0	2	1	1	1	1	0	1	7	
TOTAL	---	---	32,475	38,400	42,602	48,696	51,372	57,500	60,716	61,350	47,211	50,000	
	---	---	30,327	36,000	36,000	44,621	47,500	49,250	51,600	54,500	40,000	43,000	
	---	---	27,000	32,700	30,700	38,589	40,938	42,740	40,250	45,000	32,056	34,900	
	---	---	29,991	35,704	36,588	43,969	46,940	48,901	50,075	53,446	40,242	43,229	
	---	---	3,645	6,132	7,631	8,732	8,379	10,386	11,464	10,524	10,965	10,960	
	0	0	18	35	62	66	46	63	24	30	45	389	

TABLE-1.4.1

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	---	21,153	27,500	29,600	30,000	36,000	35,000	37,885	32,866	30,750	30,500	- 75th %-ile
	---	15,000	18,130	25,000	24,250	27,625	29,600	28,860	37,000	28,370	26,000	27,000	- 50th %-ile
	---	---	14,153	19,750	16,017	24,225	29,000	23,000	28,300	23,041	19,750	22,000	- 25th %-ile
	---	15,000	18,285	27,840	23,575	27,352	30,729	30,751	33,819	27,547	25,896	27,648	- Mean
	---	---	4,998	15,775	6,442	4,060	6,079	11,154	6,065	6,655	7,348	9,884	- Std Dev
	0	1	8	17	7	16	7	20	9	6	12	103	- Count
Women	---	---	21,125	21,550	25,750	---	36,250	25,000	24,000	---	33,132	25,000	
	---	12,000	17,830	15,000	19,000	---	21,250	22,000	21,320	27,250	26,764	21,000	
	---	---	16,250	13,250	14,000	---	16,375	21,000	13,000	---	11,750	15,500	
	---	12,000	18,193	16,920	19,700	---	24,625	22,667	19,440	27,250	23,882	20,579	
	---	---	2,792	4,556	6,648	---	10,980	2,082	5,736	2,475	11,922	6,985	
	0	1	6	5	5	0	4	3	3	2	4	33	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	33,196	48,000	---	---	---	40,598	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	33,196	48,000	---	---	---	40,598	
	---	---	---	---	---	---	---	---	---	---	---	10,468	
	0	0	0	0	0	0	1	1	0	0	0	2	
TOTAL	---	---	21,075	26,400	26,850	30,000	35,299	35,000	37,577	31,616	30,750	30,000	
	---	13,500	18,130	22,500	23,880	27,625	29,300	28,000	29,800	27,870	26,764	25,750	
	---	---	14,258	18,150	16,513	24,225	21,250	22,000	24,250	25,416	19,750	19,875	
	---	13,500	18,246	25,358	21,961	27,352	28,900	30,459	30,224	27,473	25,392	26,145	
	---	2,121	4,056	14,679	6,534	4,060	7,968	11,159	8,662	5,703	8,297	9,856	
	0	2	14	22	12	16	12	24	12	8	16	138	

TABLE-1.4.2

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SEX	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Men	---	---	27,150	28,650	34,930	40,000	45,000	44,000	50,000	59,219	40,000	40,000	- 75th %-ile
	---	---	21,850	24,600	28,000	32,000	35,800	35,000	40,000	45,000	30,250	32,000	- 50th %-ile
	---	---	20,000	20,500	23,000	27,900	30,555	30,000	32,600	36,000	25,053	25,178	- 25th %-ile
	---	---	23,318	25,628	29,776	33,966	38,447	37,423	41,654	47,283	33,436	34,110	- Mean
	---	---	5,546	7,389	9,376	9,709	11,389	11,016	11,815	15,047	12,130	12,050	- Std Dev
	0	0	72	189	249	303	209	206	78	106	104	1,516	- Count
Women	---	---	21,800	24,875	34,560	32,398	31,771	37,250	41,625	39,957	39,375	33,000	
	---	---	19,900	22,595	26,000	27,000	25,000	33,199	30,850	35,000	25,000	26,000	
	---	---	17,500	19,125	22,150	23,750	21,000	24,500	28,125	31,500	21,075	21,000	
	---	---	20,855	22,910	27,979	28,654	27,134	31,769	34,470	35,583	31,053	27,933	
	---	---	6,304	5,435	7,199	8,445	7,990	9,733	9,501	4,742	15,403	9,431	
	0	0	11	32	31	30	11	10	14	5	18	162	
No Response	---	---	---	---	30,000	---	44,199	55,000	---	---	---	38,500	
	---	---	21,500	23,250	22,665	36,500	32,000	38,000	39,000	38,575	23,000	29,500	
	---	---	---	---	21,070	---	28,502	24,700	---	---	---	23,000	
	---	---	21,500	23,250	24,961	36,500	35,480	39,480	39,000	38,575	23,000	32,050	
	---	---	4,243	1,768	6,789	9,192	11,641	15,581	---	5,056	---	11,268	
	0	0	2	2	5	2	5	5	1	2	1	25	
TOTAL	---	---	26,500	28,000	34,830	39,000	44,000	44,000	49,750	57,000	40,000	40,000	
	---	---	21,400	24,000	27,500	31,700	35,000	35,000	39,000	44,300	30,000	31,000	
	---	---	19,184	20,500	22,900	26,750	30,000	30,000	31,000	35,500	23,000	25,000	
	---	---	22,956	25,216	29,496	33,505	37,828	37,213	40,544	46,612	33,002	33,492	
	---	---	5,629	7,164	9,141	9,697	11,481	11,085	11,674	14,843	12,603	11,949	
	0	0	85	223	285	335	225	221	93	113	123	1,703	

TABLE-1.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS
by REGION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Pacific	24,625	27,000	31,000	36,500	44,550	41,644	44,250	45,000	45,363	48,625	---	40,000	- 75th %-ile
	17,070	22,250	27,300	30,500	31,324	37,000	40,000	40,000	40,280	37,500	---	30,000	- 50th %-ile
	15,860	18,055	25,000	26,400	25,000	27,925	32,000	35,000	31,875	30,500	---	25,000	- 25th %-ile
	19,185	22,486	28,564	33,062	35,109	36,342	41,212	41,013	40,166	40,063	---	32,747	- Mean
	5,268	5,619	7,882	10,692	12,777	10,102	11,770	11,553	9,562	13,040	---	11,631	- Std Dev
	4	48	48	37	26	33	17	23	22	8	0	266	- Count
Mountain	28,200	23,948	31,400	38,000	43,750	42,500	47,805	45,816	---	---	---	40,000	
	18,000	20,984	27,500	27,000	32,975	39,940	42,000	43,000	48,500	55,000	---	30,900	
	16,500	20,030	22,000	26,500	29,094	35,738	26,600	31,600	---	---	---	25,000	
	21,480	23,047	27,444	31,093	36,252	39,736	39,501	43,217	48,500	55,000	---	33,019	
	6,464	5,134	6,201	6,482	9,738	6,042	11,356	15,867	17,678	---	---	11,372	
	5	8	15	11	12	6	6	7	2	1	0	73	
WN Central	24,875	22,000	30,000	35,854	52,375	48,300	40,540	43,250	56,000	66,500	---	35,750	
	19,850	20,000	24,784	28,875	38,500	31,214	31,887	38,420	48,000	45,000	---	28,500	
	14,175	16,500	22,000	24,500	28,850	27,901	25,673	30,500	31,750	33,000	---	22,544	
	19,817	19,616	25,858	31,102	39,663	40,043	33,552	38,094	45,333	48,800	---	31,450	
	5,762	5,635	4,864	7,959	14,099	18,341	8,876	9,969	15,339	19,447	---	12,718	
	6	17	33	21	8	10	10	16	7	5	0	133	
WS Central	33,550	25,475	30,525	33,750	44,250	41,950	50,500	52,404	57,500	51,900	---	41,000	
	23,350	22,988	28,000	31,470	39,000	32,900	42,000	40,000	43,500	46,680	---	31,100	
	19,500	18,525	23,000	29,250	31,656	30,231	38,220	29,750	34,193	40,993	---	25,000	
	25,350	22,711	27,872	30,736	38,508	37,204	44,502	43,360	44,609	45,982	---	34,015	
	7,996	5,165	6,570	4,889	8,552	10,954	11,792	16,569	11,432	8,947	---	12,436	
	6	30	42	16	17	20	19	22	8	6	0	186	
EN Central	22,585	25,000	30,000	34,710	39,750	45,703	50,150	47,453	44,250	50,750	---	38,550	
	20,700	22,000	25,000	29,500	35,000	39,000	43,000	38,500	36,600	43,040	17,500	30,000	
	17,025	19,875	21,000	23,250	28,750	34,250	35,429	34,000	30,375	35,250	---	23,000	
	20,055	22,582	25,577	29,938	34,713	40,880	43,191	42,457	42,329	44,096	17,500	32,406	
	4,880	4,838	5,663	7,660	7,939	12,955	14,460	16,496	21,487	18,001	---	13,676	
	20	90	115	80	53	45	38	72	26	20	1	560	
ES Central	18,700	25,825	32,441	30,750	37,200	44,375	42,000	40,800	56,350	---	---	36,000	
	16,000	20,000	24,000	22,500	33,020	31,500	38,760	36,000	42,000	---	---	28,500	
	15,000	17,713	18,236	19,856	22,300	28,200	30,956	29,500	35,125	---	---	21,000	
	16,567	20,746	25,030	24,657	30,901	35,767	37,232	37,054	47,383	---	---	30,191	
	1,914	4,872	6,854	11,564	8,155	11,469	5,688	11,368	19,102	---	---	12,358	
	3	14	12	10	14	12	3	13	6	0	0	87	
Mid-Atlantic	23,984	24,240	29,150	35,348	42,750	45,100	50,500	50,000	50,000	51,000	---	40,025	
	20,448	22,500	25,600	30,250	37,000	40,500	42,820	42,000	40,900	40,000	---	30,000	
	15,300	19,700	21,000	26,100	26,300	31,000	34,500	33,000	35,093	38,800	---	24,000	
	19,810	22,213	25,446	31,262	37,460	40,078	42,708	43,093	42,647	42,740	---	33,114	
	4,887	5,117	5,312	8,414	12,910	12,592	11,809	13,584	14,113	8,952	---	12,965	
	17	99	106	72	57	49	42	83	22	23	0	570	
So. Atlantic	20,000	25,500	28,010	35,250	39,250	41,559	48,500	49,250	49,250	65,500	---	39,137	
	13,369	20,256	23,500	28,000	33,000	36,600	39,521	42,101	37,350	45,000	---	30,000	
	12,000	16,535	19,850	24,000	27,200	32,430	32.715	33,918	29,450	35,225	---	23,375	
	15,873	21,436	23,964	29,663	34,230	37,693	41,111	43,726	37,687	51,771	---	32,535	
	4,199	5,894	5,868	7,072	8,424	9,498	12,223	12,186	10,518	18,398	---	12,934	
	7	41	53	50	21	30	30	34	14	14	0	294	
New England	19,750	23,600	28,250	34,000	42,250	45,875	41,500	51,125	39,500	48,400	---	38,000	
	17,000	20,000	23,875	32,000	33,800	36,070	36,500	40,000	35,000	42,000	---	28,780	
	13,225	18,000	20,199	26,000	23,500	28,375	30,500	37,254	27,500	30,000	---	21,000	
	16,550	20,609	24,385	34,337	34,300	37,143	39,467	44,556	33,800	40,891	---	31,975	
	4,291	3,539	7,180	17,148	15,129	9,406	15,940	14,098	6,301	13,726	---	14,623	
	6	30	28	19	9	8	12	30	5	7	0	154	
No Response	---	---	23,000	---	40,000	---	---	58,250	---	---	---	40,500	
	---	17,500	21,600	26,000	34,000	31,000	26,000	42,000	36,000	25,000	---	28,500	
	---	---	20,000	---	31,000	---	---	34,000	---	---	---	23,000	
	---	17,500	21,533	26,000	35,000	31,000	26,000	45,300	36,000	25,000	---	31,950	
	---	7,778	1,501	---	4,583	---	---	16,642	---	---	---	13,314	
	0	2	3	1	3	1	1	3	1	1	0	18	
TOTAL	23,040	25,000	30,000	35,000	41,225	44,100	48,300	48,950	48,100	51,250	---	39,500	
	19,400	22,000	25,000	30,000	35,000	37,800	40,000	40,000	39,000	43,000	17,500	30,000	
	15,075	18,800	21,600	25,000	27,550	31,000	32,156	34,000	32,250	35,000	---	23,700	
	19,637	21,986	25,853	30,802	35,727	38,663	41,563	42,539	41,686	44,663	17,500	32,612	
	5,463	5,149	6,157	9,025	10,757	11,709	12,592	14,106	14,882	14,724	---	12,984	
	74	379	455	317	220	214	178	305	113	85	1	2,341	

TABLE-1.5.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS
by REGION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Pacific	---	28,750	32,155	35,288	45,600	39,975	42,405	54,400	37,750	70,000	48,875	42,500	- 75th %-ile
	---	23,300	27,500	29,000	31,500	36,450	39,000	43,000	35,000	50,000	36,750	32,040	- 50th %-ile
	---	19,800	23,815	25,300	27,750	31,877	28,750	35,000	28,500	35,000	25,250	26,200	- 25th %-ile
	---	23,950	29,628	31,422	35,045	38,767	36,917	44,425	33,750	49,899	38,275	35,363	- Mean
	---	4,683	10,990	8,735	11,231	15,932	8,101	12,373	4,992	17,678	14,611	12,461	- Std Dev
	0	4	34	34	22	12	13	21	4	7	12	163	- Count
Mountain	---	---	33,750	30,000	42,950	48,450	---	48,000	38,350	---	52,100	43,725	
	---	---	27,000	26,000	33,700	39,000	51,750	34,700	30,150	---	44,150	30,000	
	---	---	21,750	24,184	26,190	27,500	---	25,250	25,325	---	28,146	25,819	
	---	---	27,500	26,570	34,460	38,180	51,750	34,311	31,275	---	41,479	33,915	
	---	---	6,245	4,471	9,165	10,680	3,182	13,408	7,015	---	13,087	11,099	
	0	0	4	12	6	5	2	9	4	0	8	50	
WN Central	---	28,830	28,450	40,000	37,500	41,000	52,000	71,000	66,000	51,000	34,875	40,000	
	---	28,000	25,000	32,500	35,000	30,500	26,900	46,000	41,500	42,000	23,000	30,050	
	---	17,140	18,500	28,000	25,004	27,385	21,150	22,000	35,827	35,328	20,250	23,472	
	---	23,988	24,596	32,793	32,003	37,532	34,640	47,400	48,462	42,931	26,538	34,006	
	---	6,643	6,425	9,181	9,005	19,298	18,147	25,315	17,958	8,900	7,957	15,442	
	0	5	15	15	6	15	5	7	6	5	8	87	
WS Central	---	30,750	32,670	37,075	44,700	45,000	60,000	52,960	48,625	47,785	54,195	44,925	
	---	28,500	28,020	34,400	33,000	39,300	47,800	40,200	43,410	43,500	43,000	35,450	
	---	27,150	24,769	23,750	29,300	39,000	36,200	28,125	40,900	25,875	33,838	27,775	
	---	28,800	28,324	31,442	36,083	42,543	47,379	42,893	45,402	39,460	44,329	37,455	
	---	1,897	5,745	8,391	11,723	8,241	11,970	17,613	10,659	11,085	16,987	13,077	
	0	4	23	26	15	7	15	20	10	6	8	136	
EN Central	---	24,850	28,975	35,000	40,000	44,000	49,000	49,000	48,865	47,500	42,000	40,000	
	---	23,000	25,850	30,000	36,525	36,451	42,000	40,000	38,400	40,000	36,000	33,000	
	---	18,200	23,000	26,300	30,000	32,500	27,500	35,250	30,150	31,550	28,500	26,875	
	---	21,646	26,302	30,429	35,547	39,173	38,910	41,613	39,837	41,826	36,442	34,678	
	---	4,518	5,751	6,629	10,130	11,714	14,050	11,621	14,820	12,398	10,677	11,579	
	0	13	60	75	40	41	27	52	22	17	35	382	
ES Central	---	---	25,500	36,118	38,112	52,250	45,075	44,625	---	---	39,500	40,500	
	---	---	21,990	33,000	37,700	40,000	40,620	39,640	47,000	33,260	31,500	33,000	
	---	---	17,875	26,000	28,050	28,800	36,563	26,500	---	---	24,500	23,600	
	---	---	22,116	31,447	35,902	40,420	40,632	37,251	47,000	33,260	31,900	33,202	
	---	---	5,492	6,253	9,014	15,029	4,211	9,267	32,527	11,681	8,518	11,422	
	0	0	14	5	8	5	6	10	2	2	5	57	
Mid-Atlantic	---	26,000	32,760	37,000	42,250	46,000	55,000	49,625	50,000	50,000	43,185	42,600	
	---	24,500	28,000	31,000	34,000	39,000	40,268	40,500	40,000	42,000	34,500	34,000	
	---	22,000	22,500	25,225	29,050	30,000	29,500	34,800	32,500	32,000	28,250	27,250	
	---	24,058	27,452	32,012	35,828	38,577	41,628	42,255	43,914	41,208	37,463	36,350	
	---	2,729	6,659	9,760	9,319	12,511	16,316	12,600	16,004	12,344	14,497	12,929	
	0	11	55	72	45	33	36	52	23	24	36	397	
So. Atlantic	---	24,642	30,250	38,518	40,450	41,600	48,150	50,750	51,665	45,400	44,250	42,800	
	---	20,966	24,254	30,600	33,000	35,100	44,242	43,500	40,500	38,000	29,000	34,000	
	---	15,980	21,000	25,000	26,500	29,700	31,000	33,750	35,750	27,050	24,750	25,000	
	---	21,014	26,023	31,507	34,864	37,784	41,055	42,201	44,985	36,613	35,957	34,971	
	---	6,782	7,599	9,223	11,128	12,064	10,438	11,858	14,273	12,648	19,270	13,200	
	0	12	22	27	33	21	17	22	10	11	22	197	
New England	---	28,350	32,386	37,050	37,513	48,500	39,875	54,000	---	49,000	30,000	38,754	
	---	26,000	27,500	30,000	33,900	39,000	30,775	41,104	28,500	42,000	23,500	31,772	
	---	20,000	23,800	22,750	30,600	30,500	23,500	29,750	---	21,370	18,000	26,069	
	---	24,783	28,139	31,865	34,559	38,389	33,055	44,145	28,500	36,548	24,399	34,006	
	---	4,306	5,317	12,317	8,480	12,806	11,462	17,147	2,121	15,069	6,950	12,667	
	0	3	21	17	18	9	10	21	2	5	7	113	
No Response	---	---	---	---	---	---	---	---	---	---	43,500	39,250	
	---	---	28,800	---	30,050	44,000	---	---	---	---	32,000	32,300	
	---	---	---	---	---	---	---	---	---	---	22,500	26,875	
	---	---	28,800	---	30,050	44,000	---	---	---	---	32,800	34,090	
	---	---	---	---	3,606	13,556	---	---	---	---	12,235	11,151	
	0	0	1	0	2	2	0	0	0	0	5	10	
TOTAL	---	26,750	31,000	36,000	40,000	42,700	49,500	50,000	48,000	49,000	43,475	41,922	
	---	23,784	26,000	30,353	33,900	37,850	41,000	40,200	39,000	42,000	34,000	33,000	
	---	20,310	23,000	25,400	29,000	30,000	30,000	34,050	31,000	30,000	26,731	26,425	
	---	23,144	27,029	31,213	35,205	38,834	40,372	42,156	42,074	40,946	36,079	35,274	
	---	5,146	7,150	8,607	9,937	12,771	13,462	13,662	14,729	12,796	14,130	12,649	
	0	52	251	283	195	150	131	224	83	77	146	1,592	

TABLE-1.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS
by REGION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Pacific	---	---	39,900	42,800	48,500	49,000	56,700	59,000	60,000	59,906	47,500	49,675	- 75th %-ile
	---	---	33,000	36,000	40,000	41,000	46,080	48,000	47,750	50,000	37,154	40,000	- 50th %-ile
	---	---	27,000	27,600	28,000	34,550	36,405	37,577	37,400	40,000	32,000	32,763	- 25th %-ile
	---	---	32,465	36,065	40,292	41,568	47,943	48,612	48,665	51,872	40,549	42,163	- Mean
	---	---	7,975	10,607	14,255	10,785	15,843	12,323	13,509	15,064	13,712	13,795	- Std Dev
	0	0	39	77	115	77	34	64	32	38	48	524	- Count
Mountain	---	---	31,950	40,000	46,164	48,000	51,000	52,325	56,496	60,125	47,000	47,000	
	---	---	25,700	33,000	36,000	36,700	40,250	44,500	45,472	52,448	40,040	38,500	
	---	---	20,675	23,000	24,600	29,000	30,940	36,657	38,129	38,250	31,000	30,000	
	---	---	26,903	31,303	36,825	39,008	42,156	44,753	46,928	49,733	40,647	39,161	
	---	---	6,645	9,845	13,708	12,196	12,045	12,305	12,084	11,597	10,883	12,873	
	0	0	12	23	34	31	27	30	10	6	15	188	
WN Central	---	---	36,000	39,700	44,000	44,750	50,500	52,650	59,500	57,000	50,000	45,300	
	---	---	33,200	31,000	39,000	38,750	40,100	40,400	41,000	45,000	37,400	37,385	
	---	---	28,125	25,250	29,625	27,423	29,800	30,094	34,993	39,400	30,000	29,626	
	---	---	31,613	33,283	36,784	37,236	41,304	41,091	47,593	50,207	40,921	38,876	
	---	---	6,245	11,297	9,689	11,053	13,348	14,105	18,862	18,215	12,902	13,407	
	0	0	28	49	56	56	43	28	22	23	33	338	
WS Central	---	---	37,200	40,060	47,750	55,110	60,000	55,000	59,000	80,000	60,000	52,000	
	---	---	34,500	35,000	38,250	41,650	46,200	44,000	52,140	52,000	40,750	40,000	
	---	---	32,000	27,250	29,375	35,000	31,768	31,500	40,000	42,150	32,327	32,000	
	---	---	34,017	34,808	38,615	46,770	48,409	44,436	52,144	58,330	44,212	42,479	
	---	---	7,503	9,658	11,454	17,298	16,832	16,342	16,419	20,996	18,082	15,777	
	0	0	47	60	64	62	45	47	19	15	34	393	
EN Central	---	---	35,700	40,000	48,000	50,500	52,000	58,300	60,000	65,000	50,000	50,000	
	---	---	33,500	34,590	39,800	42,000	44,450	45,000	51,500	47,000	40,000	40,000	
	---	---	30,000	30,000	31,000	31,000	34,263	34,184	43,500	40,000	33,300	32,500	
	---	---	32,382	34,249	40,452	42,601	44,369	47,532	52,143	52,444	41,926	41,867	
	---	---	5,764	8,895	12,772	13,857	12,222	15,758	15,825	18,166	14,170	14,210	
	0	0	73	138	159	181	88	118	35	55	91	938	
ES Central	---	---	36,500	37,000	36,250	40,000	45,000	50,000	62,500	70,000	55,000	43,500	
	---	---	31,500	29,700	31,000	32,616	35,000	40,000	49,750	61,000	41,000	35,000	
	---	---	22,634	21,000	22,750	27,900	31,400	30,000	40,750	42,950	30,000	27,400	
	---	---	30,536	30,354	30,635	35,957	37,303	41,106	53,620	60,664	44,438	36,839	
	---	---	8,920	10,726	8,614	12,627	10,106	13,444	16,847	17,234	18,201	14,205	
	0	0	13	35	37	31	20	29	10	7	13	195	
Mid-Atlantic	---	---	38,000	43,500	50,000	53,875	57,250	60,000	58,950	62,000	55,000	52,800	
	---	---	34,800	37,000	42,000	45,000	43,478	52,000	46,926	52,000	43,000	43,000	
	---	---	32,000	30,625	35,000	33,250	37,788	40,157	37,590	41,648	36,050	34,475	
	---	---	34,451	37,339	42,814	44,605	49,002	51,069	49,810	53,940	45,574	44,599	
	---	---	6,163	10,482	12,726	14,639	16,678	15,129	18,085	17,412	15,271	15,068	
	0	0	86	176	199	148	134	131	58	68	133	1,133	
So. Atlantic	---	---	35,475	39,900	44,750	48,000	55,000	60,200	56,900	63,800	50,000	50,000	
	---	---	33,570	35,000	36,100	42,578	48,000	50,000	48,250	50,000	40,000	40,000	
	---	---	28,784	27,900	30,000	32,235	35,000	39,250	37,508	38,000	31,000	32,000	
	---	---	31,648	34,390	36,980	41,594	47,065	50,030	48,959	50,090	40,516	41,490	
	---	---	6,465	9,237	10,523	12,644	14,765	16,185	16,541	15,268	13,636	14,209	
	0	0	76	109	133	134	91	109	46	46	71	815	
New England	---	---	35,000	40,000	41,238	50,300	53,500	60,500	60,678	66,750	60,500	49,000	
	---	---	32,000	35,000	36,550	40,000	43,350	45,750	49,000	57,500	42,859	40,000	
	---	---	23,000	25,000	27,903	31,425	38,368	35,750	38,500	45,000	36,000	32,000	
	---	---	29,224	33,126	35,737	41,656	47,509	48,802	47,459	56,936	48,559	41,621	
	---	---	6,699	9,146	9,868	13,774	14,980	15,992	15,218	13,658	17,808	14,926	
	0	0	25	50	64	55	50	46	13	14	28	346	
No Response	---	---	---	39,400	44,450	60,000	55,000	73,500	---	60,800	45,000	49,750	
	---	---	23,400	35,000	35,500	32,000	49,000	56,500	34,000	60,000	28,800	35,950	
	---	---	---	30,000	27,100	28,000	42,000	36,500	---	36,400	19,000	30,250	
	---	---	23,400	32,759	35,720	39,686	48,600	55,500	34,000	52,400	30,933	39,358	
	---	---	14,001	9,751	11,040	15,877	7,537	19,638	---	13,862	13,992	15,046	
	0	0	2	7	5	7	5	4	1	3	6	40	
TOTAL	---	---	36,150	41,000	46,500	50,000	55,000	58,000	58,700	63,000	50,030	50,000	
	---	---	33,600	35,000	39,000	41,000	45,000	47,000	48,050	50,000	40,000	40,000	
	---	---	29,317	27,813	30,000	31,500	35,000	36,540	38,000	40,500	33,000	32,000	
	---	---	32,367	34,822	39,130	42,153	46,259	48,026	49,665	52,853	42,979	41,968	
	---	---	6,873	10,031	12,366	13,737	14,943	15,323	16,303	16,825	14,984	14,572	
	0	0	401	724	866	783	537	606	246	275	472	4,910	

TABLE-2.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only
by DEGREE and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	22,840	25,000	30,000	35,890	42,428	45,000	50,000	48,950	49,000	53,000	---	40,800	- 75th %-ile
	20,000	22,000	26,690	30,000	36,600	39,000	41,957	40,000	40,000	43,000	17,500	32,204	- 50th %-ile
	16,150	19,500	22,267	26,000	31,000	32,000	35,000	34,431	33,225	35,000	---	25,000	- 25th %-ile
	20,112	22,515	26,870	31,637	37,541	39,681	43,092	42,973	43,182	45,042	17,500	34,618	- Mean
	5,084	5,245	6,204	9,285	10,544	11,289	12,381	14,131	15,396	14,197	---	13,217	- Std Dev
	45	213	320	257	163	176	152	277	89	73	1	1,766	- Count
Masters	---	26,500	32,000	36,900	44,750	45,000	51,625	52,000	52,331	50,219	46,100	45,000	
	---	23,000	27,872	31,500	37,000	39,300	44,121	43,000	42,000	44,000	37,000	36,000	
	---	19,765	24,000	27,000	31,341	34,000	36,150	36,000	36,500	37,050	30,000	29,425	
	---	23,050	28,358	32,193	37,945	41,457	44,191	45,104	46,537	45,025	40,626	38,096	
	---	4,492	7,266	7,373	9,162	12,962	12,935	12,939	14,486	11,580	14,375	12,756	
	0	25	171	211	137	113	98	175	57	56	93	1,136	
Doctorate	---	---	37,590	43,300	50,000	56,000	60,000	62,000	64,089	67,280	53,000	54,000	
	---	---	34,550	38,616	44,000	48,000	51,000	53,000	53,661	56,000	44,000	45,000	
	---	---	32,525	34,550	38,000	41,250	45,000	45,000	44,000	44,400	37,000	37,260	
	---	---	35,022	39,348	44,578	49,563	53,117	54,642	55,743	57,509	46,857	47,149	
	---	---	4,617	8,096	10,774	12,256	13,567	13,794	16,228	17,078	14,241	13,784	
	0	0	264	445	525	408	280	361	138	151	307	2,879	
No Response	---	---	---	---	---	---	---	---	---	---	53,585	53,585	
	---	---	---	---	---	---	---	---	---	---	42,000	42,000	
	---	---	---	---	---	---	---	---	---	---	36,033	36,033	
	---	---	---	---	---	---	---	---	---	---	45,906	45,906	
	---	---	---	---	---	---	---	---	---	---	18,089	18,089	
	0	0	0	0	0	0	0	0	0	0	36	36	
TOTAL	22,840	25,215	34,500	40,250	48,000	52,000	55,925	57,500	58,575	61,000	52,000	50,000	
	20,000	22,000	30,000	35,000	41,100	44,000	48,000	46,500	46,662	50,000	42,300	40,000	
	16,150	19,500	25,000	30,000	35,000	37,203	40,000	38,200	39,000	40,000	35,800	31,800	
	20,112	22,571	30,057	35,524	42,086	45,753	48,592	48,613	49,959	51,762	45,386	41,569	
	5,084	5,165	7,016	9,088	10,974	12,952	13,951	14,757	16,609	16,554	14,845	14,605	
	45	238	755	913	825	697	530	813	284	280	437	5,817	

TABLE-2.1.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - WOMEN Only
by DEGREE and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	24,750	24,500	27,444	31,325	34,130	38,000	43,130	39,350	39,750	51,500	---	28,974	- 75th %-ile
	19,500	21,800	23,000	26,200	26,340	31,000	29,900	31,525	34,842	46,000	---	24,288	- 50th %-ile
	14,250	18,950	20,700	22,575	24,000	26,000	24,438	27,325	24,925	26,000	---	20,585	- 25th %-ile
	19,643	21,732	23,733	27,178	29,542	33,487	32,527	35,216	33,411	44,605	---	25,847	- Mean
	6,146	4,462	5,167	5,535	8,822	12,693	10,347	14,087	9,791	23,357	---	9,075	- Std Dev
	24	133	111	44	42	27	14	16	18	7	0	436	- Count
Masters	---	27,970	30,000	38,000	35,250	41,979	42,000	40,000	44,675	46,550	33,500	35,000	
	---	24,700	25,000	31,000	30,400	39,100	30,000	34,000	30,200	39,850	26,000	28,300	
	---	22,000	22,560	25,500	27,075	25,742	25,500	30,000	25,000	26,788	22,150	24,000	
	---	24,869	26,315	31,794	32,068	34,775	31,747	32,500	34,942	38,025	28,586	29,971	
	---	4,407	5,364	8,138	8,960	10,080	8,278	8,225	13,018	9,785	9,783	8,605	
	0	21	55	39	26	16	11	11	9	6	25	219	
Doctorate	---	---	38,000	41,000	44,000	47,125	53,800	58,054	48,000	70,000	40,648	42,000	
	---	---	35,000	37,000	37,450	41,500	41,900	42,000	40,000	59,661	35,750	37,000	
	---	---	32,825	33,000	32,950	33,750	32,000	25,000	34,000	46,000	31,460	33,000	
	---	---	34,501	37,881	38,939	41,747	41,501	40,626	44,079	58,554	36,341	38,415	
	---	---	4,299	6,275	9,520	11,631	13,683	17,380	14,309	12,038	5,530	9,372	
	0	0	46	47	30	22	15	7	7	3	22	199	
No Response	---	---	---	---	---	---	---	---	---	---	45,000	45,000	
	---	---	---	---	---	---	---	---	---	---	27,060	27,060	
	---	---	---	---	---	---	---	---	---	---	16,269	16,269	
	---	---	---	---	---	---	---	---	---	---	28,935	28,935	
	---	---	---	---	---	---	---	---	---	---	14,792	14,792	
	0	0	0	0	0	0	0	0	0	0	8	8	
TOTAL	24,750	25,000	32,375	37,625	38,946	42,941	42,978	41,000	42,125	51,125	40,000	35,600	
	19,500	22,000	25,010	32,000	31,760	36,000	33,564	33,000	35,526	45,700	32,000	28,000	
	14,250	19,435	22,000	26,000	26,000	27,851	26,200	27,775	25,750	27,788	24,000	22,545	
	19,643	22,160	26,739	32,432	33,089	36,600	35,678	35,451	36,013	44,753	31,739	29,825	
	6,146	4,570	6,569	8,007	9,849	12,152	11,892	13,200	12,062	18,046	9,858	10,364	
	24	154	212	130	98	65	40	34	34	16	55	862	

TABLE-2.2.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
STATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
California	24,625	27,300	31,750	37,345	50,100	42,250	46,950	44,500	45,363	50,000	---	40,000	- 75th %-ile
	17,070	23,400	28,448	32,152	31,324	38,362	43,000	40,000	40,680	40,000	---	31,200	- 50th %-ile
	15,860	20,000	25,400	27,975	25,380	31,600	34,104	35,000	36,000	30,000	---	26,000	- 25th %-ile
	19,185	23,301	29,829	33,955	36,308	38,104	43,767	40,880	41,017	40,786	---	33,703	- Mean
	5,268	5,371	7,363	8,552	13,776	9,845	11,980	11,300	8,611	13,910	---	11,349	- Std Dev
	4	39	40	28	16	26	13	20	18	7	0	211	- Count
Texas	37,000	26,000	33,500	34,000	47,900	58,320	46,000	52,000	---	---	---	40,000	
	32,400	24,000	29,500	31,200	39,000	41,200	41,000	40,000	60,000	---	---	32,000	
	15,000	19,500	25,700	29,000	31,000	32,000	37,200	29,000	---	---	---	25,614	
	28,133	23,426	29,917	30,799	38,986	44,686	43,456	40,847	60,000	---	---	34,716	
	11,604	5,037	7,463	4,274	11,301	12,591	13,000	14,002	0	---	---	12,693	
	3	19	20	11	7	7	15	15	2	0	0	99	
Illinois	21,025	24,000	30,000	37,875	36,500	50,000	53,200	59,750	41,000	43,000	---	39,000	
	19,400	21,600	25,000	31,000	33,000	39,000	39,000	39,980	37,200	40,200	17,500	30,000	
	17,175	19,625	22,000	28,250	29,238	35,100	27,500	31,970	31,250	20,332	---	22,064	
	19,200	22,218	25,580	33,120	34,098	42,180	40,546	46,832	41,929	33,262	17,500	33,022	
	2,061	4,528	6,097	8,480	9,621	13,394	17,775	20,588	19,901	13,047	---	14,895	
	4	28	31	21	13	13	11	22	9	7	1	160	
Michigan	23,310	26,325	30,000	32,400	39,900	46,000	52,500	55,000	45,000	---	---	36,000	
	21,350	23,900	25,200	27,500	34,500	39,000	44,000	38,340	39,700	38,000	---	28,000	
	13,890	22,000	22,975	22,000	31,000	36,000	35,307	34,000	33,025	---	---	23,000	
	19,357	23,858	25,998	28,189	34,440	41,136	43,923	45,506	38,683	38,000	---	30,423	
	4,890	4,075	5,907	6,271	6,251	7,670	10,163	19,666	7,928	2,828	---	10,606	
	6	20	26	18	10	7	5	7	6	2	0	107	
Ohio	21,620	25,000	27,926	35,000	39,000	46,000	52,300	48,500	52,000	53,375	---	40,000	
	20,250	21,360	23,000	29,500	35,000	38,000	45,000	38,600	31,500	48,500	---	32,000	
	16,695	17,800	20,000	23,550	28,000	33,500	39,830	34,681	27,275	39,876	---	22,970	
	19,027	21,912	24,094	30,051	33,793	40,938	47,272	43,043	41,350	45,834	---	33,777	
	4,184	5,084	5,216	7,247	7,060	16,194	13,932	13,609	29,295	12,776	---	14,645	
	6	27	27	22	15	19	17	29	6	6	0	174	
New Jersey	21,500	24,000	28,600	35,300	50,000	44,667	53,000	50,700	48,750	53,750	---	42,810	
	20,448	22,256	25,700	32,000	36,500	40,250	48,000	43,000	39,700	41,500	---	32,000	
	15,100	18,635	22,150	27,570	26,900	31,000	37,000	34,000	30,500	35,950	---	24,230	
	19,016	22,316	25,893	32,482	40,320	40,734	46,465	43,310	37,925	43,650	---	34,590	
	3,432	6,346	5,061	6,672	17,185	13,958	12,388	13,258	14,544	10,039	---	13,709	
	3	33	41	26	21	22	17	31	8	12	0	214	
New York	24,000	26,000	31,500	34,598	39,196	50,000	55,500	57,000	41,800	47,000	---	40,000	
	16,300	22,650	26,000	27,250	37,050	41,600	37,980	42,500	40,000	40,000	---	29,000	
	15,000	20,000	21,500	24,425	26,500	29,775	28,750	38,000	35,000	32,500	---	23,525	
	18,559	22,752	26,222	29,438	33,656	40,872	40,493	45,134	38,933	39,800	---	31,762	
	4,520	5,009	6,050	9,684	7,373	12,288	13,742	11,459	3,523	8,701	---	12,061	
	7	35	25	20	14	10	6	27	3	5	0	152	
Pennsylvania	25,750	24,150	28,400	36,425	45,000	46,000	46,850	45,500	50,000	51,808	---	40,000	
	23,654	22,800	26,250	30,750	39,200	41,100	40,000	37,500	46,000	41,000	---	30,490	
	18,250	20,100	20,575	26,875	26,600	31,000	35,500	30,000	35,500	37,750	---	24,150	
	21,885	22,113	24,685	31,469	38,225	40,130	41,109	40,619	47,095	43,372	---	33,537	
	6,254	2,899	5,059	7,328	10,331	11,006	10,009	16,044	14,967	7,698	---	12,737	
	6	25	34	22	19	15	17	25	11	6	0	180	
Other States	23,175	24,506	29,253	34,250	40,375	40,813	45,406	47,225	46,350	63,500	---	38,200	
	19,000	20,378	25,000	28,140	34,600	35,250	39,042	40,000	36,050	46,000	---	30,000	
	15,000	18,245	21,550	24,000	27,550	30,000	30,000	33,835	31,188	35,000	---	23,300	
	19,665	21,265	25,504	30,345	35,070	36,727	39,449	41,827	40,692	49,941	---	32,257	
	5,387	4,915	5,804	10,340	9,531	10,492	12,110	13,493	15,178	17,867	---	12,939	
	30	124	189	134	92	86	67	121	44	35	0	922	
TOTAL	23,250	25,000	30,000	35,000	40,500	44,450	49,350	48,950	46,800	52,625	---	39,660	
	20,000	22,000	25,800	30,000	35,000	38,000	41,000	40,000	39,000	43,000	17,500	30,000	
	15,550	19,075	21,950	25,463	28,000	31,184	33,000	34,000	32,000	35,000	---	24,000	
	19,949	22,192	26,068	30,945	35,840	38,942	42,053	42,645	41,538	45,004	17,500	32,885	
	5,436	4,982	6,095	8,981	10,663	11,747	12,677	14,144	15,021	15,005	---	13,001	
	69	350	433	302	207	205	168	297	107	80	1	2,219	

TABLE-2.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1983 Survey of ACS Members

YEARS SINCE BS

STATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
California	---	28,750	32,040	41,750	50,500	42,500	42,228	54,350	---	71,250	52,500	44,000	- 75th %-ile
	---	23,300	28,000	31,000	39,100	36,400	34,000	41,500	33,000	50,146	38,400	32,500	- 50th %-ile
	---	19,800	24,000	28,000	28,000	31,836	27,000	34,000	---	38,750	31,575	27,500	- 25th %-ile
	---	23,950	28,661	34,414	38,964	40,634	34,319	44,723	33,000	52,382	40,230	36,381	- Mean
	---	4,683	7,582	8,271	11,985	18,158	7,607	13,610	---	17,978	15,035	12,940	- Std Dev
	0	4	27	22	14	7	6	14	1	6	10	111	- Count
Texas	---	---	33,075	39,225	44,700	52,500	50,750	52,460	48,625	---	---	43,250	
	---	27,600	28,050	34,400	31,700	40,500	45,900	40,200	43,410	26,000	36,250	35,000	
	---	---	24,885	25,350	29,300	37,000	36,150	32,055	41,425	---	---	27,925	
	---	27,600	28,982	32,771	36,086	43,900	45,100	44,238	44,670	26,000	36,250	37,104	
	---	---	5,356	7,561	10,008	9,685	9,154	15,064	3,883	---	3,889	10,929	
	0	1	18	16	7	5	10	12	6	1	2	78	
Illinois	---	---	29,125	36,075	46,500	56,000	49,500	55,125	59,500	40,500	50,500	45,000	
	---	20,250	24,350	30,390	37,300	43,000	45,000	49,500	35,928	36,000	29,000	35,000	
	---	---	20,192	26,375	30,875	34,500	31,250	40,500	26,500	30,750	23,950	26,300	
	---	20,250	25,768	30,964	39,218	46,980	42,014	51,491	41,586	35,750	36,262	37,046	
	---	6,010	6,342	6,540	11,620	18,417	13,013	15,163	22,661	5,315	15,829	14,712	
	0	2	14	22	9	11	9	10	5	4	13	99	
Michigan	---	---	32,000	34,500	46,500	44,500	50,000	40,450	57,750	---	38,715	40,000	
	---	25,800	29,000	30,500	40,000	39,500	46,930	38,250	44,500	41,550	37,550	35,000	
	---	---	25,000	25,188	34,700	32,500	31,215	36,250	31,400	---	29,625	29,614	
	---	25,800	29,281	29,882	39,780	38,389	42,715	40,000	44,550	41,550	35,314	35,489	
	---	---	6,981	6,231	6,542	6,451	10,869	7,709	14,086	11,950	4,818	8,878	
	0	1	15	14	10	[illegible]	4	8	8	2	6	73	
Ohio	---	24,850	27,475	36,785	41,800	41,936	62,000	47,625	51,365	64,000	46,200	42,000	
	---	24,000	23,930	29,500	35,650	36,374	42,000	40,700	40,500	52,000	40,000	36,000	
	---	21,700	23,000	27,800	30,000	34,000	28,000	36,000	30,500	44,000	33,000	28,897	
	---	23,420	25,336	31,922	34,975	37,516	42,494	41,666	41,581	53,667	40,171	36,623	
	---	1,855	4,495	4,712	8,663	4,750	15,780	7,398	11,593	11,622	6,674	10,750	
	0	5	14	15	8	10	7	20	6	6	7	98	
New Jersey	---	26,175	33,500	39,100	39,750	47,500	56,250	51,500	65,000	59,750	55,000	46,000	
	---	23,700	30,000	31,750	32,200	40,900	44,850	44,000	50,000	50,000	36,300	36,150	
	---	21,250	23,500	28,650	27,575	35,800	37,500	36,000	36,250	43,000	33,000	30,425	
	---	23,550	28,598	32,870	33,644	42,394	46,133	[illegible]	52,214	49,625	44,580	39,380	
	---	2,965	6,738	6,687	9,314	13,619	15,768	[illegible]	17,330	13,223	17,101	13,798	
	0	6	23	20	18	16	18	25	9	8	13	156	
New York	---	27,380	32,940	37,250	50,413	48,000	62,250	47,500	60,000	48,000	46,000	43,250	
	---	23,500	27,250	30,825	40,550	36,000	40,000	38,636	39,350	42,000	37,000	36,000	
	---	22,125	24,955	25,535	31,750	25,607	28,000	32,000	36,500	35,000	30,000	28,330	
	---	24,335	28,625	31,673	40,817	37,024	43,775	39,760	46,470	41,327	38,227	37,070	
	---	2,880	5,744	8,244	9,144	11,755	16,404	9,982	15,875	7,283	12,774	11,182	
	0	4	12	22	16	6	8	19	5	11	11	114	
Pennsylvania	---	---	30,585	37,000	41,500	50,000	52,500	55,500	45,612	---	33,925	40,650	
	---	26,000	28,436	32,000	39,600	41,925	35,618	42,600	42,000	37,000	27,988	31,700	
	---	---	21,025	25,000	33,200	35,650	17,406	37,180	24,500	---	25,500	26,000	
	---	26,000	26,576	31,558	37,800	42,645	35,227	48,411	36,445	37,000	30,313	34,123	
	---	---	6,362	6,638	4,580	8,121	17,337	18,161	11,063	---	7,970	11,698	
	0	1	16	23	5	5	6	9	5	1	6	77	
Other States	---	28,350	31,000	37,369	39,750	43,500	50,750	53,000	52,331	46,285	45,000	42,750	
	---	23,568	[illegible]	32,000	35,000	39,000	44,000	45,000	40,800	42,500	34,000	35,000	
	---	20,280	23,472	25,850	30,840	33,053	36,500	36,000	35,500	38,125	25,000	27,500	
	---	24,041	27,814	32,216	36,249	39,766	43,528	44,998	45,838	42,190	36,815	36,501	
	---	5,554	7,637	8,231	8,994	13,094	11,753	14,778	15,437	8,896	15,543	12,843	
	0	23	87	96	80	60	41	71	25	24	53	560	
TOTAL	---	27,000	31,829	37,000	43,000	44,750	50,000	50,750	50,625	50,000	45,000	43,000	
	---	24,500	27,000	31,250	35,300	39,300	42,912	42,000	41,660	43,000	35,000	35,000	
	---	21,000	23,493	26,975	30,787	33,106	35,125	36,000	35,000	37,000	27,000	28,000	
	---	23,923	27,860	32,131	36,983	40,628	42,935	44,347	44,956	44,278	37,788	36,762	
	---	4,459	6,897	7,481	9,301	12,798	13,069	12,976	14,756	11,457	14,323	12,514	
	0	47	226	250	167	129	109	188	66	63	121	1,366	

TABLE-2.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1983 Survey of ACS Members

						YEARS SINCE BS							
STATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
California	---	---	40,000	46,000	51,609	51,875	66,750	62,126	67,563	60,500	48,000	53,750	- 75th %-ile
	---	---	34,900	41,170	45,322	47,816	55,000	54,650	57,500	52,600	39,500	45,144	- 50th %-ile
	---	---	32,325	35,000	39,570	41,481	46,875	46,300	47,000	41,543	32,111	39,000	- 25th %-ile
	---	---	35,974	41,259	46,762	47,909	55,834	54,725	57,229	55,152	43,090	47,106	- Mean
	---	---	5,715	9,118	13,574	7,917	14,227	13,089	10,180	16,481	13,887	13,296	- Std Dev
	0	0	24	48	68	32	14	29	14	21	27	277	- Count
Texas	---	---	38,550	48,300	49,925	75,000	64,000	55,000	77,750	60,000	70,738	55,000	
	---	---	34,250	38,000	45,000	52,000	52,500	50,000	58,500	58,000	45,000	45,550	
	---	---	32,000	33,600	36,381	46,800	45,375	43,250	47,750	51,000	40,000	36,000	
	---	---	36,175	39,802	45,116	57,656	55,479	48,880	60,833	56,333	53,869	47,817	
	---	---	6,527	9,162	9,328	20,660	13,479	7,277	19,343	4,726	17,737	15,010	
	0	0	20	21	28	19	12	9	6	3	14	132	
Illinois	---	---	37,880	46,225	51,750	57,000	58,000	62,000	87,250	57,150	55,750	54,000	
	---	---	34,350	38,220	41,000	47,000	46,250	48,000	67,000	51,200	44,124	44,000	
	---	---	28,905	35,750	36,850	37,700	36,000	41,400	58,250	42,500	38,150	36,850	
	---	---	34,395	40,325	45,674	49,627	47,648	52,680	71,667	48,898	48,323	47,468	
	---	---	5,848	6,584	11,950	15,801	12,378	18,815	17,648	12,483	14,694	14,780	
	0	0	8	22	37	17	12	22	6	8	21	153	
Michigan	---	---	34,400	40,625	53,525	62,000	60,000	59,500	69,500	76,000	49,500	55,000	
	---	---	33,000	36,200	47,500	55,000	52,000	50,000	58,600	64,000	39,500	46,000	
	---	---	32,480	33,938	40,100	43,500	43,400	44,250	46,050	43,000	34,750	37,188	
	---	---	33,346	37,485	47,993	52,524	53,273	51,350	58,050	62,403	41,667	47,704	
	---	---	2,055	4,651	11,263	12,032	10,700	9,304	12,786	18,136	11,582	12,793	
	0	0	14	18	24	25	15	24	4	8	12	144	
Ohio	---	---	37,620	41,460	45,000	52,000	55,075	62,125	57,000	70,000	50,000	49,678	
	---	---	34,800	37,200	41,600	46,500	45,700	54,700	47,760	46,320	43,000	42,500	
	---	---	32,640	34,400	33,000	42,500	41,450	44,375	45,200	40,000	35,500	36,000	
	---	---	34,590	38,333	40,033	48,148	47,955	54,135	51,183	54,335	42,448	44,308	
	---	---	3,881	6,617	10,552	9,217	8,471	15,023	7,651	19,197	10,007	12,036	
	0	0	31	31	31	42	16	22	11	15	23	222	
New Jersey	---	---	38,500	43,185	51,550	59,875	60,000	66,125	69,500	77,000	58,125	57,300	
	---	---	35,500	38,410	46,150	51,500	54,000	58,000	54,000	60,500	43,150	46,000	
	---	---	33,000	34,450	40,000	46,250	46,500	50,500	44,000	52,850	38,000	38,000	
	---	---	35,908	39,297	47,091	52,932	54,697	58,837	56,336	65,150	48,852	48,849	
	---	---	4,861	7,121	11,425	11,444	14,443	16,559	18,465	17,983	16,856	15,009	
	0	0	35	62	66	44	40	44	15	12	54	372	
New York	---	---	39,700	46,000	50,000	60,000	67,000	60,000	64,950	74,250	55,300	55,000	
	---	---	35,856	41,300	42,300	51,000	51,400	53,000	44,926	56,000	48,900	45,250	
	---	---	33,800	35,500	37,925	40,560	45,526	44,000	39,090	44,750	37,000	37,863	
	---	---	36,607	40,959	44,091	50,465	54,845	52,215	53,481	58,953	46,855	47,604	
	---	---	5,153	8,576	9,904	16,200	18,424	11,562	22,210	19,163	12,441	14,535	
	0	0	21	39	40	31	31	31	10	12	27	242	
Pennsylvania	---	---	35,600	47,000	50,949	50,000	58,850	57,745	68,500	59,750	45,750	52,000	
	---	---	34,400	41,000	43,000	44,750	50,926	52,000	54,000	50,500	40,250	45,000	
	---	---	32,000	35,000	39,000	38,000	45,690	48,750	40,250	45,250	33,375	36,250	
	---	---	34,598	42,765	45,487	45,464	53,118	52,635	55,604	53,875	41,521	46,109	
	---	---	4,555	10,949	11,383	10,681	13,994	9,650	17,642	13,325	8,888	12,552	
	0	0	21	39	48	20	24	22	13	8	18	213	
Other States	---	---	37,000	41,040	47,475	55,000	58,065	63,800	62,335	67,820	52,000	52,000	
	---	---	34,650	37,258	42,000	46,000	50,000	53,150	51,000	59,331	44,520	43,000	
	---	---	32,226	33,600	36,000	40,000	42,000	44,375	42,443	45,250	36,047	36,000	
	---	---	34,420	37,836	42,147	47,566	51,840	54,645	53,662	58,448	46,268	45,885	
	---	---	3,978	7,222	8,903	11,338	13,772	14,010	15,965	16,982	13,767	13,504	
	0	0	138	213	216	203	138	170	70	68	137	1,353	
TOTAL	---	---	37,590	43,000	50,000	55,900	60,000	62,000	64,178	67,500	52,100	53,266	
	---	---	34,800	38,041	43,000	48,000	50,876	52,800	53,600	56,000	43,100	44,000	
	---	---	32,600	34,550	37,500	41,000	44,150	45,000	43,972	45,000	36,950	36,900	
	---	---	34,946	39,203	44,238	49,114	52,657	54,328	55,372	57,594	46,240	46,629	
	---	---	4,555	7,939	10,762	12,307	14,014	13,910	16,167	16,930	14,082	13,733	
	0	0	312	493	558	433	302	373	149	155	333	3,108	

TABLE-2.3.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
LOCAL SECTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
So. California	---	27,000	30,475	33,125	52,000	46,000	55,800	40,000	56,125	---	---	40,000	- 75th %-ile
	---	21,075	[illegible]	29,850	30,000	41,500	44,000	37,000	44,780	41,000	---	30,000	- 50th %-ile
	---	18,000	24,000	26,000	26,520	38,951	42,000	32,500	37,140	---	---	25,000	- 25th %-ile
	---	22,208	28,406	30,943	35,218	42,238	49,067	35,667	46,015	41,000	---	32,870	- Mean
	---	5,461	9,568	6,815	12,918	11,281	13,131	5,715	9,914	12,728	---	12,108	- Std Dev
	0	20	16	14	7	12	6	6	4	2	0	87	- Count
California	26,250	28,000	34,500	40,000	59,000	38,000	47,875	48,643	41,500	59,875	---	40,000	
	17,500	24,000	30,000	37,000	32,850	34,000	34,104	43,500	38,400	37,250	---	30,750	
	16,120	22,000	27,000	29,000	24,750	25,000	31,965	37,668	31,500	25,500	---	25,875	
	20,448	23,814	31,344	37,215	39,450	32,633	39,095	42,075	38,475	40,875	---	33,338	
	5,365	4,722	5,735	10,577	17,300	6,960	10,453	8,768	7,781	18,241	---	10,662	
	5	15	20	11	6	11	6	8	8	4	0	94	
Chicago	27,875	24,000	30,000	39,975	38,500	52,000	53,350	58,000	67,800	46,150	---	39,000	
	21,000	21,000	26,000	31,600	33,000	40,000	44,000	39,960	39,000	43,000	17,500	30,000	
	19,300	19,300	22,000	27,300	25,300	34,800	33,000	29,100	32,530	24,500	---	23,001	
	22,728	21,460	26,372	33,659	33,560	44,100	45,522	46,258	49,151	40,737	17,500	33,773	
	5,536	4,173	5,292	9,082	8,041	[illegible]	15,657	20,499	26,536	19,106	---	15,908	
	8	25	35	21	13	8	9	23	9	9	1	161	
Delaware	---	---	30,480	38,000	---	54,050	63,000	67,000	---	---	---	51,200	
	21,600	32,000	30,000	29,400	40,000	44,500	47,200	35,000	41,000	53,000	---	38,000	
	---	---	24,500	28,500	---	37,450	26,800	31,050	---	---	---	29,700	
	21,600	32,000	28,327	31,967	40,000	46,033	45,786	44,350	41,000	53,000	---	41,077	
	---	---	3,323	5,244	18,385	11,248	16,437	19,715	---	9,899	---	13,841	
	1	1	3	3	2	6	7	3	1	2	0	29	
New York	21,000	26,250	30,250	32,250	37,413	50,000	54,500	48,000	---	43,750	---	36,300	
	15,900	23,075	25,750	28,250	31,525	46,000	44,500	42,000	---	39,500	---	27,000	
	14,750	19,875	21,425	24,875	25,000	34,200	27,750	36,600	---	29,250	---	22,320	
	17,467	22,786	25,868	29,357	34,020	43,400	42,250	42,460	---	37,500	---	29,854	
	3,806	5,192	5,486	7,682	14,276	8,724	14,315	10,035	---	8,103	---	11,294	
	6	30	18	14	10	4	4	15	0	4	0	105	
No. Jersey	21,500	24,250	28,000	35,000	57,750	45,050	63,250	55,000	50,000	49,750	---	43,000	
	20,448	22,125	24,950	32,000	39,500	40,250	45,930	45,600	44,000	39,400	---	32,000	
	15,100	19,375	21,000	27,210	35,375	31,000	32,500	39,000	30,000	33,500	---	24,000	
	19,016	22,948	25,133	31,538	46,350	41,520	46,886	46,243	38,286	40,850	---	34,633	
	3,432	[illegible]	4,804	5,913	16,271	15,169	14,664	12,799	15,671	10,742	---	14,264	
	3	26	34	18	12	18	10	23	7	8	0	159	
Northeastern	22,779	24,593	29,000	34,733	51,375	52,000	54,000	48,500	40,000	55,750	---	37,980	
	19,000	20,100	22,000	32,000	33,820	47,500	38,300	39,500	36,000	42,000	---	28,000	
	13,750	18,000	19,000	25,750	28,169	25,000	30,500	35,067	25,000	30,000	---	21,000	
	18,353	21,194	23,837	34,801	39,283	41,500	40,950	42,958	33,667	42,700	---	31,684	
	5,308	3,921	6,424	19,357	14,775	14,465	12,461	13,112	7,767	13,998	---	14,464	
	6	26	19	14	6	3	8	22	3	5	0	112	
Philadelphia	28,000	23,875	30,000	39,120	40,750	46,550	48,250	49,750	55,112	54,058	---	41,375	
	21,000	20,600	26,650	30,000	35,450	38,900	45,000	34,710	48,000	48,000	---	30,000	
	10,000	17,000	21,750	29,000	24,875	30,575	39,880	27,825	36,550	37,750	---	24,375	
	19,667	20,315	26,011	32,602	33,300	39,250	44,118	40,877	49,502	46,205	---	33,599	
	9,074	4,070	5,354	5,099	9,312	9,042	5,523	18,930	16,815	8,372	---	13,529	
	3	17	18	11	12	6	9	12	8	6	0	102	
Pittsburgh	25,000	25,575	28,000	38,000	45,750	56,000	58,400	51,250	48,200	---	---	40,825	
	23,967	23,780	26,500	32,000	36,900	41,100	40,000	39,750	38,600	---	---	31,500	
	23,340	22,975	17,450	30,000	31,250	28,250	38,750	30,000	35,124	---	---	26,000	
	24,102	24,605	23,711	33,400	37,913	40,950	46,860	41,606	40,641	---	---	35,078	
	838	2,359	5,171	4,443	8,077	13,884	11,511	15,482	6,773	---	---	12,494	
	3	8	9	7	8	7	5	14	3	0	0	64	
S.E. Texas	37,000	27,525	33,000	35,000	48,500	61,080	66,500	56,000	---	---	---	45,250	
	32,400	[illegible]	30,000	33,000	39,000	54,960	46,000	40,000	60,000	---	---	34,000	
	15,000	[illegible]	27,000	29,000	35,500	50,025	43,000	35,000	---	---	---	28,800	
	28,133	23,410	31,242	32,136	41,400	55,355	53,000	45,067	60,000	---	---	37,390	
	11,604	4,971	7,354	3,888	8,961	5,812	14,832	13,699	0	---	---	13,938	
	3	10	13	7	5	4	5	9	2	0	0	58	
Washington DC	---	24,500	27,500	32,233	37,750	47,500	41,235	47,500	---	---	---	38,500	
	16,281	20,256	23,000	28,500	33,500	39,711	38,000	43,957	52,000	63,500	---	29,000	
	---	19,240	21,000	24,000	28,500	28,591	33,430	39,354	---	---	---	23,000	
	16,281	20,551	24,518	28,564	33,250	38,601	37,500	43,604	52,000	63,500	---	31,166	
	4,118	4,341	5,441	5,861	4,992	10,297	5,630	4,242	---	---	---	10,605	
	2	7	11	8	4	4	9	4	1	1	0	51	
None of Above	23,040	25,000	29,565	34,475	40,500	41,100	47,000	46,750	44,075	[illegible]	---	39,000	
	19,350	22,000	25,000	28,140	35,000	36,000	40,000	39,200	36,000	44,940	---	30,000	
	15,750	19,000	21,360	23,800	28,296	31,000	30,960	34,000	31,375	35,825	---	23,700	
	19,204	22,080	25,561	29,659	35,021	37,322	40,151	41,777	39,515	46,477	---	32,426	
	4,752	5,004	5,843	8,607	9,054	10,981	12,674	13,870	13,792	15,293	---	12,402	
	22	159	225	170	119	117	87	153	61	38	0	1,151	
No Response	21,700	28,100	32,250	38,625	36,600	48,000	50,283	60,800	---	---	---	36,850	
	18,000	22,000	23,650	35,940	23,000	35,000	40,000	40,000	---	85,000	---	26,800	
	14,500	19,410	21,500	35,220	17,400	23,550	23,000	33,000	---	---	---	21,500	
	18,300	22,540	26,378	36,595	25,667	35,620	37,761	45,520	---	85,000	---	30,592	
	3,759	5,744	6,731	1,987	9,874	14,180	13,779	14,528	---	---	---	14,310	
	7	6	12	4	3	5	3	5	0	1	0	46	
TOTAL	23,250	25,000	30,000	35,000	40,500	44,450	49,350	48,950	46,800	52,625	---	39,660	
	20,000	22,000	25,800	30,000	35,000	38,000	41,000	40,000	39,000	43,000	17,500	30,000	
	15,550	19,075	21,950	25,463	28,000	31,184	33,000	34,000	32,000	35,000	---	24,000	
	19,949	22,192	26,068	30,945	35,840	38,942	42,053	42,645	41,538	45,004	17,500	32,885	
	5,436	4,982	6,095	8,961	10,663	11,747	12,677	14,144	15,021	15,005	---	13,001	
	69	350	433	302	207	205	[illegible]	297	107	80	1	2,219	

TABLE-2.3.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
LOCAL SECTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
So. California	---	---	31,500	48,500	49,000	42,500	---	53,800	---	---	56,000	45,000	- 75th %-ile
	---	21,600	28,886	35,000	44,800	36,400	30,000	43,000	---	50,000	35,000	32,000	- 50th %-ile
	---	---	21,725	29,000	26,850	25,200	---	31,000	---	---	18,150	27,000	- 25th %-ile
	---	21,600	25,955	37,364	39,300	34,700	30,000	43,743	---	50,000	36,660	35,728	- Mean
	---	---	6,475	9,757	11,544	8,774	---	14,351	---	---	19,544	12,521	- Std Dev
	0	1	9	11	5	3	1	7	0	1	5	43	- Count
California	---	30,000	33,250	35,000	53,750	67,500	42,000	59,475	---	50,292	55,000	42,000	
	---	25,000	27,500	30,000	39,100	36,500	38,000	45,500	---	30,000	38,400	32,040	
	---	19,200	24,360	28,000	27,500	31,918	27,500	34,500	---	26,000	36,725	27,500	
	---	24,733	30,396	31,503	39,533	47,067	35,833	47,150	---	35,431	43,375	36,164	
	---	5,405	8,713	5,362	14,073	20,725	7,489	14,699	---	13,025	11,189	12,650	
	0	3	14	11	6	5	3	6	0	3	4	55	
Chicago	---	27,125	28,000	37,875	47,250	46,755	50,000	55,125	50,000	40,500	48,250	40,700	
	---	22,390	25,000	30,390	37,733	38,603	39,000	45,500	37,454	36,000	31,000	35,000	
	---	17,070	21,000	25,975	36,750	33,053	27,500	39,750	29,750	30,750	23,975	25,925	
	---	22,195	25,917	31,327	40,996	44,278	40,744	50,110	41,321	35,750	36,671	36,438	
	---	5,198	5,889	6,983	11,038	17,688	14,717	15,838	20,279	5,315	15,032	14,287	
	0	4	15	22	8	12	7	10	6	4	14	102	
Delaware	---	---	26,000	---	---	---	---	55,000	---	48,000	---	45,000	
	---	23,568	25,000	---	29,700	43,500	42,000	42,000	45,000	45,000	---	41,500	
	---	---	20,000	---	---	---	---	36,360	---	41,000	---	25,250	
	---	23,568	23,667	---	29,700	43,500	42,000	44,453	45,000	44,667	---	37,208	
	---	---	3,215	---	15,839	2,121	---	9,559	---	3,512	---	11,014	
	0	1	3	0	2	2	1	3	1	3	0	16	
New York	---	27,380	26,875	37,750	50,000	50,000	60,000	48,500	78,000	46,750	44,685	45,000	
	---	23,500	25,350	30,825	38,500	40,000	38,000	38,636	46,000	42,500	36,000	35,000	
	---	22,125	22,850	24,330	33,000	29,071	27,000	31,850	38,175	35,750	27,000	27,300	
	---	24,335	24,633	31,472	38,877	39,628	42,571	39,261	55,670	42,167	37,270	37,484	
	---	2,880	3,392	9,602	8,394	11,038	14,557	11,033	20,843	6,242	12,654	12,789	
	0	4	6	14	15	5	7	17	5	6	12	91	
No. Jersey	---	26,450	33,500	39,250	43,580	48,425	51,000	52,250	61,425	59,750	71,375	48,000	
	---	25,000	30,000	31,500	32,850	40,900	44,700	45,500	44,000	50,000	39,500	36,000	
	---	20,500	25,000	26,250	29,450	33,750	36,000	37,000	32,500	43,000	31,375	30,000	
	---	23,780	28,926	33,176	35,007	42,764	44,795	45,700	46,132	49,625	48,750	39,435	
	---	3,255	5,702	10,062	9,264	14,388	15,369	8,828	13,497	13,223	20,860	13,661	
	0	5	19	17	16	14	15	20	7	8	8	129	
Northeastern	---	---	32,266	31,450	52,750	54,000	57,750	46,500	---	54,000	36,000	38,775	
	---	24,175	27,500	28,850	36,150	37,500	51,500	39,800	---	44,000	30,000	32,200	
	---	---	23,600	21,475	32,300	29,250	30,775	34,750	---	37,200	23,400	27,921	
	---	24,175	28,002	27,842	40,245	40,250	45,710	41,030	---	45,067	29,800	34,627	
	---	5,904	5,202	6,051	10,005	13,175	14,455	7,165	---	8,451	6,302	10,519	
	0	2	17	12	10	4	5	10	0	3	3	66	
Philadelphia	---	28,300	33,500	40,150	39,800	47,981	---	---	55,000	---	45,750	40,825	
	---	26,000	30,000	28,000	35,000	40,463	13,374	68,500	42,000	---	35,500	30,540	
	---	22,400	21,350	24,700	25,900	32,475	---	---	26,000	---	24,500	24,550	
	---	25,567	28,164	31,777	33,280	40,306	13,374	68,500	44,333	---	35,250	33,499	
	---	2,974	8,403	7,629	8,164	8,133	---	30,406	19,604	---	11,871	13,166	
	0	3	13	13	5	4	1	2	3	0	4	48	
Pittsburgh	---	---	---	37,000	---	---	57,000	---	---	---	---	44,612	
	---	25,000	30,150	36,000	43,000	42,000	39,536	55,370	46,224	37,000	29,900	36,840	
	---	---	---	32,000	---	---	18,750	---	---	---	---	30,450	
	---	25,000	30,150	33,949	43,000	42,000	38,429	55,370	46,224	37,000	29,900	37,576	
	---	---	1,202	5,011	---	11,314	19,149	12,205	---	---	---	10,865	
	0	1	2	7	1	2	3	2	1	1	1	21	
S.E. Texas	---	---	34,000	36,000	---	60,000	59,000	53,280	---	---	---	43,000	
	---	---	30,700	33,800	43,100	40,500	46,500	38,500	45,850	26,000	36,250	35,000	
	---	---	26,800	25,000	---	35,000	34,000	27,500	---	---	---	28,250	
	---	---	30,627	32,055	43,100	45,167	46,500	43,405	45,850	26,000	36,250	37,958	
	---	---	4,592	7,116	16,829	13,137	12,974	16,584	6,576	---	3,889	12,233	
	0	0	9	11	2	3	4	11	2	1	2	45	
Washington DC	---	22,000	32,856	47,750	42,750	---	46,781	59,650	---	---	63,500	47,695	
	---	19,250	22,621	36,500	32,000	35,300	46,000	53,000	51,000	45,400	34,500	33,500	
	---	14,500	18,875	27,191	28,000	---	32,000	49,500	---	---	20,500	23,310	
	---	18,450	25,361	37,147	35,375	35,300	41,594	54,267	51,000	45,400	40,445	36,749	
	---	3,907	7,877	10,878	12,961	8,344	8,318	5,597	---	---	23,271	15,869	
	0	5	6	4	8	2	3	6	1	1	8	44	
None of Above	---	28,815	31,000	36,000	40,000	42,950	50,000	49,000	49,243	51,850	45,000	42,575	
	---	25,900	27,000	31,000	35,000	39,000	44,000	41,102	41,500	43,500	34,850	35,000	
	---	22,750	23,520	26,853	30,000	33,750	37,000	36,000	32,000	38,125	27,000	28,000	
	---	25,427	27,997	31,835	36,088	39,280	43,684	42,946	43,053	45,708	36,672	36,539	
	---	4,691	7,409	6,959	7,981	12,269	11,734	12,802	13,246	12,519	12,736	11,832	
	0	18	107	123	87	70	59	90	37	32	57	680	
No Response	---	---	31,148	39,500	---	44,000	---	69,000	80,000	---	45,000	41,750	
	---	---	25,000	35,000	45,600	41,000	---	49,000	39,000	---	37,000	37,500	
	---	---	21,175	32,750	---	39,500	---	36,500	39,000	---	36,300	31,025	
	---	---	25,698	35,900	45,600	41,500	---	51,500	52,667	---	39,433	39,680	
	---	---	6,112	3,912	20,365	2,291	---	17,464	23,671	---	4,834	14,346	
	0	0	6	5	2	3	0	4	3	0	3	26	
TOTAL	---	27,000	31,829	37,000	43,000	44,750	50,000	50,750	50,625	50,000	45,000	43,000	
	---	24,500	27,000	31,250	35,300	39,300	42,912	42,000	41,660	43,000	35,000	35,000	
	---	21,000	23,493	26,975	30,787	33,106	35,125	36,000	35,000	37,000	27,000	28,000	
	---	23,923	27,860	32,131	36,983	40,628	42,935	44,347	44,956	44,278	37,788	36,762	
	---	4,459	6,897	7,481	9,301	12,798	13,069	12,976	14,756	11,457	14,323	12,514	
	0	47	226	250	167	129	109	188	66	63	121	1,366	

TABLE-2.3.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
LOCAL SECTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
So. California	---	---	40,000	46,000	51,700	50,544	76,000	70,000	52,500	64,250	47,500	52,000	- 75th %-ile
	---	---	37,450	44,000	48,000	47,000	56,000	52,000	48,000	53,700	38,250	46,000	- 50th %-ile
	---	---	32,400	38,000	42,650	41,250	37,596	49,000	43,750	39,750	32,083	39,560	- 25th %-ile
	---	---	36,475	41,351	49,160	46,233	56,532	52,807	48,100	53,949	40,061	46,820	- Mean
	---	---	4,394	6,971	12,389	5,786	19,843	15,532	4,722	17,593	9,003	12,383	- Std Dev
	0	0	8	11	25	11	4	7	5	10	10	91	- Count
California	---	---	39,500	46,375	55,000	52,800	63,938	61,000	68,375	58,750	49,000	53,500	
	---	---	34,500	41,670	44,000	48,000	57,400	56,000	63,000	52,600	40,000	45,000	
	---	---	31,677	36,000	34,000	46,440	46,875	45,600	52,000	46,000	34,700	38,000	
	---	---	34,989	42,518	45,015	50,091	56,925	54,565	60,750	54,900	44,460	46,640	
	---	---	5,454	9,834	15,048	9,435	10,973	9,369	10,096	13,688	15,181	13,234	
	0	0	13	32	35	15	6	15	5	9	17	147	
Chicago	---	---	38,340	46,000	51,125	57,000	60,000	73,600	87,250	61,600	56,625	54,000	
	---	---	35,700	39,300	40,500	46,500	45,000	49,000	67,000	54,000	43,812	43,500	
	---	---	28,000	33,000	36,875	37,850	36,000	42,000	49,500	44,000	36,825	36,500	
	---	---	34,594	39,813	45,641	49,314	47,118	55,413	68,167	53,040	47,954	47,088	
	---	---	6,287	7,114	11,827	15,402	12,399	21,501	21,977	9,381	15,217	14,864	
	0	0	7	27	38	18	15	15	6	5	20	151	
Delaware	---	---	37,500	44,310	53,000	60,000	65,300	68,000	79,125	62,500	52,200	59,000	
	---	---	35,020	36,750	46,500	55,000	55,000	61,600	50,800	49,000	38,400	46,524	
	---	---	34,000	35,100	41,430	44,500	49,000	52,000	44,700	46,000	35,000	37,000	
	---	---	35,782	39,541	47,809	53,361	58,039	61,493	57,847	54,167	44,501	49,538	
	---	---	2,495	5,746	8,714	10,127	13,294	13,640	19,506	12,835	13,300	14,358	
	0	0	30	16	14	21	17	27	10	9	15	159	
New York	---	---	39,700	43,000	50,000	51,250	72,000	56,250	56,800	77,875	51,200	52,000	
	---	---	36,000	40,025	41,100	45,100	50,000	48,300	48,000	57,500	42,000	43,280	
	---	---	33,500	35,000	38,000	31,375	41,900	44,000	40,500	47,500	37,000	37,065	
	---	---	36,654	39,578	43,495	45,548	54,580	50,868	48,622	60,570	45,918	46,198	
	---	---	6,138	9,920	8,895	16,080	24,431	11,649	11,608	20,794	14,834	15,006	
	0	0	13	27	27	18	15	22	9	10	23	164	
No. Jersey	---	---	38,625	43,200	50,834	59,250	60,000	70,850	70,625	83,000	58,125	55,625	
	---	---	36,150	38,160	45,000	51,000	54,700	58,000	54,500	62,500	43,050	45,680	
	---	---	33,000	34,000	39,500	47,000	50,000	49,000	48,500	56,950	38,000	37,863	
	---	---	35,879	38,893	46,013	53,433	55,691	58,339	57,510	68,480	49,365	48,456	
	---	---	5,103	7,050	10,694	10,905	14,420	17,222	20,906	16,930	16,969	15,122	
	0	0	30	54	57	33	29	33	10	10	46	302	
Northeastern	---	---	35,500	42,375	49,625	58,114	59,000	62,567	58,839	69,050	55,475	51,500	
	---	---	33,000	39,200	42,000	42,072	47,000	52,500	39,000	57,500	42,859	42,000	
	---	---	31,150	34,675	36,675	40,000	42,000	42,625	35,770	46,250	35,275	36,000	
	---	---	33,288	39,218	43,459	49,098	52,638	54,135	44,953	57,600	46,787	45,347	
	---	---	4,282	6,809	10,289	14,304	17,034	15,739	12,556	12,043	16,206	13,819	
	0	0	17	26	28	19	19	16	6	4	14	149	
Philadelphia	---	---	35,000	46,800	54,500	50,000	56,500	63,250	69,000	61,000	43,000	52,000	
	---	---	34,450	39,160	45,000	44,000	50,000	52,000	50,000	45,000	39,000	44,000	
	---	---	33,650	36,000	39,000	37,000	45,743	48,500	40,000	36,000	33,000	36,000	
	---	---	33,566	41,052	46,608	44,421	51,584	54,669	54,336	47,333	39,364	45,575	
	---	---	2,983	6,775	12,796	10,293	10,242	11,744	18,097	12,662	12,023	12,246	
	0	0	13	23	27	9	21	13	7	3	11	127	
Pittsburgh	---	---	35,250	44,000	45,250	61,500	---	63,000	---	55,750	49,500	51,000	
	---	---	32,000	38,400	41,380	45,000	73,400	52,000	59,500	50,500	41,500	43,000	
	---	---	31,350	34,700	35,385	39,250	---	40,000	---	46,000	32,485	35,000	
	---	---	32,800	39,373	41,851	49,300	73,400	54,546	59,500	50,750	42,260	45,281	
	---	---	2,245	6,514	8,358	14,472	37,618	15,215	7,778	5,500	10,794	13,742	
	0	0	6	11	8	5	2	7	2	4	8	53	
S.E. Texas	---	---	40,125	47,675	50,000	80,250	66,000	53,975	---	60,000	56,250	55,000	
	---	---	35,500	39,000	46,000	65,300	59,500	49,060	32,000	58,000	41,060	43,750	
	---	---	33,825	35,450	38,000	37,625	48,100	41,750	---	51,000	35,875	36,000	
	---	---	38,029	39,934	45,723	61,850	58,967	47,903	32,000	56,333	44,770	46,980	
	---	---	6,785	9,547	9,219	21,354	13,739	7,775	---	4,726	10,288	13,866	
	0	0	14	16	19	10	9	6	1	3	6	84	
Washington DC	---	---	34,500	45,000	45,050	50,000	59,418	52,285	60,675	66,460	54,085	53,800	
	---	---	32,300	37,000	38,200	46,000	51,642	49,500	51,300	63,400	45,000	45,000	
	---	---	27,000	34,000	34,120	38,000	48,000	40,410	40,750	55,415	38,046	38,000	
	---	---	31,471	38,922	39,106	44,809	54,097	50,070	50,790	60,338	45,529	46,736	
	---	---	4,558	7,078	6,222	8,217	9,013	15,334	9,813	8,491	9,353	11,694	
	0	0	7	11	18	26	18	19	10	12	16	137	
None of Above	---	---	37,125	42,000	48,250	55,860	56,400	61,348	65,000	70,000	52,000	52,500	
	---	---	34,500	37,379	42,500	47,690	49,700	52,391	53,661	57,000	45,000	43,900	
	---	---	32,003	33,575	36,550	41,000	42,000	44,000	45,600	41,000	37,000	36,500	
	---	---	34,673	38,385	43,222	48,618	50,582	53,240	56,352	57,699	46,778	46,126	
	---	---	4,258	8,118	10,183	11,926	12,481	12,393	16,310	19,223	15,758	13,404	
	0	0	150	234	253	244	139	188	77	71	139	1,495	
No Response	---	---	38,000	40,020	45,700	53,500	73,000	88,000	---	80,500	57,750	54,000	
	---	---	33,230	38,000	44,100	48,000	50,000	56,000	58,000	43,000	40,000	43,000	
	---	---	30,365	35,625	32,500	40,625	41,250	51,000	---	40,610	35,050	37,500	
	---	---	33,865	37,858	40,156	47,375	55,250	66,800	58,000	57,044	45,313	48,110	
	---	---	4,016	2,510	6,768	6,799	15,434	21,335	---	21,674	14,143	15,791	
	0	0	4	5	9	4	8	5	1	5	8	49	
TOTAL	---	---	37,590	43,000	50,000	55,900	60,000	62,000	64,[illegible]18	67,500	52,100	53,266	
	---	---	34,800	38,041	43,000	48,000	50,876	52,800	53,600	56,000	43,100	44,000	
	---	---	32,600	34,550	37,500	41,000	44,150	45,000	43,972	45,000	36,950	36,900	
	---	---	34,946	39,203	44,238	49,114	52,657	54,328	55,372	57,594	46,240	46,629	
	---	---	4,555	7,939	10,762	12,307	14,014	13,910	16,167	16,930	14,082	13,733	
	0	0	312	493	558	433	302	373	149	155	333	3,108	

TABLE-3.1.0

SALARIES of FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	27,450	28,842	34,000	41,000	50,200	54,400	60,900	64,100	57,600	64,700	---	50,000	- 90th %-ile
	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	- 75th %-ile
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	- 50th %-ile
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	- 25th %-ile
	14,370	16,571	19,480	22,000	23,940	25,940	26,870	27,910	30,000	27,600	---	20,000	- 10th %-ile
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	- Mean
	4,915	4,858	6,016	8,932	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	- Std Dev
	60	302	367	248	167	157	126	248	95	71	1	1,842	- Count
Masters	---	29,400	35,060	41,900	52,000	58,600	63,350	59,640	72,400	61,400	59,040	54,000	
	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	19,000	21,168	24,200	27,700	30,000	27,500	31,700	30,080	28,300	21,720	24,000	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,785	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	
Doctorate	---	---	40,000	48,360	59,325	67,000	75,000	74,520	83,600	86,850	67,850	66,000	
	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	30,000	31,440	34,490	36,360	38,224	38,067	39,400	39,000	33,720	33,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,541	14,376	14,012	
	0	0	284	430	458	333	234	283	113	112	262	2,509	
No Response	---	---	---	---	---	---	---	---	---	---	77,000	77,000	
	---	---	---	---	---	---	---	---	---	---	52,250	52,250	
	---	---	---	---	---	---	---	---	---	---	42,000	42,000	
	---	---	---	---	---	---	---	---	---	---	32,425	32,425	
	---	---	---	---	---	---	---	---	---	---	20,904	20,904	
	---	---	---	---	---	---	---	---	---	---	44,955	44,955	
	---	---	---	---	---	---	---	---	---	---	18,980	18,980	
	0	0	0	0	0	0	0	0	0	0	36	36	
TOTAL	27,450	28,860	38,220	46,520	55,110	62,150	70,000	71,000	74,000	76,200	65,500	60,000	
	23,610	25,800	34,500	40,750	48,500	54,000	58,000	58,000	58,250	61,000	52,000	49,000	
	20,424	23,000	30,000	35,000	41,100	45,000	49,100	46,250	45,200	49,000	42,000	38,800	
	16,350	20,000	25,000	30,000	35,000	38,000	40,000	38,151	38,000	40,000	35,000	30,195	
	14,370	16,768	21,000	25,000	30,000	31,000	32,000	32,000	31,800	33,000	28,800	24,000	
	20,388	22,924	29,936	35,762	42,334	46,522	49,660	49,085	49,695	51,665	45,048	40,769	
	4,915	4,838	6,713	8,666	11,177	13,650	14,785	15,247	17,163	16,675	15,356	14,922	
	60	341	844	877	764	586	442	694	261	235	394	5,498	

TABLE-3.2.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
TOTAL SUBORDINATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	23,205	24,500	27,982	31,460	39,000	39,975	42,170	40,000	44,250	44,640	---	31,578	- 75th $-ile
	20,224	21,700	24,000	28,000	31,700	31,600	33,000	35,700	37,510	38,000	17,500	25,000	- 50th $-ile
	16,000	19,380	20,789	23,925	25,000	25,350	26,700	27,775	32,000	31,500	---	21,000	- 25th $-ile
	20,154	21,816	24,395	28,195	32,770	34,224	36,366	35,765	38,437	38,250	17,500	27,514	- Mean
	4,776	4,358	4,968	6,405	10,921	13,294	13,687	10,428	8,383	10,356	---	9,710	- Std Dev
	50	195	172	92	60	45	33	62	28	22	1	760	- Count
1-2	25,750	25,700	30,250	34,650	40,750	42,000	52,000	47,450	43,000	55,300	---	39,950	
	22,050	24,000	27,300	30,000	36,500	37,140	43,900	39,500	39,000	47,300	---	32,000	
	19,450	20,200	24,000	26,000	33,000	31,752	36,900	33,300	31,750	39,500	---	25,130	
	22,783	23,675	27,225	30,703	38,221	38,198	45,134	41,080	37,773	49,857	---	33,836	
	4,704	5,094	5,308	6,289	10,110	8,615	14,655	10,614	9,979	16,151	---	11,693	
	6	55	94	45	32	33	27	59	25	17	0	393	
3-7	27,000	28,000	33,000	37,005	44,095	45,000	52,000	48,000	50,000	50,500	---	41,203	
	22,880	23,000	28,000	33,000	36,850	40,000	43,930	39,000	40,400	42,000	---	35,000	
	19,000	20,000	24,050	28,000	28,844	33,979	39,000	33,855	35,165	34,500	---	28,000	
	22,960	23,565	28,596	32,747	36,187	40,076	44,960	41,256	43,021	42,126	---	35,500	
	4,001	5,332	5,885	6,789	8,544	7,973	9,023	11,182	13,363	10,750	---	10,770	
	3	35	64	76	36	37	26	57	30	17	0	381	
8-12	---	29,000	33,863	46,000	46,000	50,000	45,000	55,250	44,750	50,000	---	45,531	
	---	28,000	30,300	36,700	39,000	41,200	40,000	45,000	40,600	45,000	---	37,820	
	---	21,768	28,250	31,400	34,000	39,000	37,000	40,344	32,550	35,300	---	31,000	
	---	26,784	32,335	39,974	39,626	43,041	40,973	47,582	39,300	46,471	---	39,414	
	---	4,811	6,996	11,175	8,085	7,068	4,528	11,695	6,529	14,416	---	10,581	
	0	11	24	13	15	19	11	20	4	7	0	124	
13-17	---	30,300	35,750	45,500	41,800	57,500	53,500	62,650	---	---	---	49,750	
	---	29,000	32,050	35,000	37,000	44,556	45,160	47,000	---	59,000	---	39,750	
	---	24,000	25,250	30,500	31,960	35,500	42,000	38,675	---	---	---	32,000	
	---	27,767	31,017	37,111	36,699	47,771	48,566	52,750	---	59,000	---	42,778	
	---	3,326	7,153	9,269	6,536	17,389	15,733	19,087	---	---	---	15,528	
	0	3	6	9	9	9	7	12	0	1	0	56	
18-22	---	---	44,600	---	54,000	---	50,000	57,250	---	65,000	---	51,750	
	10,000	30,000	30,600	31,500	42,500	30,750	50,000	48,000	---	55,000	---	40,000	
	---	---	26,300	---	36,250	---	38,640	42,250	---	54,250	---	31,200	
	10,000	30,000	34,480	31,500	44,250	30,750	46,213	50,667	---	58,077	---	41,456	
	---	7,071	10,801	2,121	9,430	3,889	6,559	11,877	---	6,008	---	13,644	
	1	2	5	2	4	2	3	6	0	3	0	28	
23-32	---	---	---	46,475	56,625	65,750	48,200	58,750	100,000	---	---	55,000	
	---	35,000	31,000	34,450	41,750	47,750	44,000	52,470	85,000	59,250	---	45,250	
	---	---	---	24,435	35,500	34,385	40,000	41,138	40,000	---	---	37,750	
	---	35,000	31,000	35,120	44,625	49,295	44,080	52,849	75,000	59,250	---	49,027	
	---	---	---	11,688	11,412	16,319	4,161	13,202	31,225	6,010	---	16,772	
	0	1	1	4	4	4	5	8	3	2	0	32	
33-47	---	---	---	---	66,000	61,080	54,550	69,000	---	---	---	61,000	
	---	---	---	36,000	52,428	54,360	51,600	53,500	51,550	---	---	52,000	
	---	---	---	---	51,000	42,323	47,750	40,150	---	---	---	40,100	
	---	---	---	36,000	56,476	52,588	51,300	55,080	51,550	---	---	52,435	
	---	---	---	2,828	8,279	9,902	3,535	14,085	21,850	---	---	11,912	
	0	0	0	2	3	4	4	10	2	0	0	25	
48-67	---	---	---	---	---	---	69,750	76,750	---	---	---	72,500	
	---	---	30,000	43,840	57,250	65,500	50,280	69,250	---	54,000	---	55,000	
	---	---	---	---	---	---	40,140	40,500	---	---	---	40,920	
	---	---	30,000	43,840	57,250	65,500	53,390	62,688	---	54,000	---	56,612	
	---	---	---	226	10,960	15,435	16,043	19,407	---	---	---	16,617	
	0	0	1	2	2		4	8	0	1	0	20	
68-99	---	---	---	---	---	---	---	---	---	---	---	91,650	
	---	---	---	78,500	62,500	75,500	64,800	72,000	93,600	80,000	---	68,500	
	---	---	---	---	---	---	---	---	---	---	---	60,000	
	---	---	---	78,500	62,500	75,500	64,800	72,000	93,600	80,000	---	74,340	
	---	---	---	30,406	3,536	21,920	---	---	---	---	---	15,757	
	0	0	0	2	2	2	1	1	1	1	0	10	
>=100	---	---	---	---	---	---	62,500	90,000	---	---	---	84,900	
	---	---	---	40,100	---	---	55,000	84,000	72,900	---	---	65,000	
	---	---	---	---	---	---	47,250	75,500	---	---	---	51,500	
	---	---	---	40,100	---	---	54,900	83,000	72,900	---	---	67,338	
	---	---	---	---	---	---	7,845	7,280	18,243	---	---	17,308	
	0	0	0	1	0	0	5	5	2	0	0	13	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,932	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	
	60	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-3.2.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
TOTAL SUBORDINATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	---	27,150	30,013	32,875	39,318	43,250	41,956	46,375	48,865	45,000	36,700	39,000	- 75th %-ile
	---	23,450	26,000	29,050	33,400	38,750	36,000	39,660	40,385	42,000	28,500	30,694	- 50th %-ile
	---	20,050	23,454	25,063	30,500	31,575	27,750	36,000	32,125	37,200	21,300	25,500	- 25th %-ile
	---	23,337	26,974	29,766	34,651	38,187	34,990	41,017	40,827	42,437	29,983	32,547	- Mean
	---	5,333	5,165	6,253	6,282	9,281	8,960	11,647	10,800	8,428	9,187	9,611	- Std Dev
	0	18	98	64	39	30	17	44	14	19	31	374	- Count
1-2	---	28,463	32,500	35,725	42,200	42,000	50,000	46,000	62,250	46,190	40,370	41,400	
	---	27,150	27,687	32,000	35,300	38,670	43,005	40,400	43,500	42,000	37,000	35,000	
	---	24,125	24,000	27,000	29,650	34,750	36,650	35,000	36,000	35,500	27,750	28,925	
	---	26,169	27,870	32,318	37,026	38,347	41,631	41,778	48,269	41,887	36,375	35,957	
	---	3,049	5,273	7,193	8,963	5,412	12,876	11,011	15,265	10,976	10,959	10,638	
	0	10	45	60	37	18	16	43	12	17	25	284	
3-7	---	27,300	33,000	40,000	43,925	46,250	54,500	47,750	44,000	62,000	54,250	42,000	
	---	24,134	30,450	33,800	36,000	41,963	42,000	40,500	38,000	50,000	35,750	36,000	
	---	22,750	24,250	29,625	30,300	38,000	40,000	35,000	34,500	38,500	30,125	30,000	
	---	25,078	29,395	34,273	36,549	44,218	46,215	41,171	41,646	48,809	40,713	37,707	
	---	3,303	6,083	6,896	10,199	11,534	10,605	8,943	12,275	12,929	13,220	11,175	
	0	6	36	42	32	18	13	24	13	11	24	219	
8-12	---	30.000	36,000	40,000	49,250	45,000	52,000	55,000	76,250	---	72,945	50,000	
	---	26,000	30,000	35,000	37,600	39,100	48,000	50,050	49,000	49,000	65,390	40,500	
	---	23,000	27,500	30,500	34,200	30,250	32,000	41,790	40,500	---	36,975	34,050	
	---	26,333	32,071	34,947	40,540	40,135	44,735	50,252	54,125	49,000	51,770	42,933	
	---	3,512	4,605	6,302	8,604	12,521	13,240	11,979	19,845	1,414	19,994	13,584	
	0	3	7	15	10	12	11	20	8	2	4	92	
13-17	---	---	---	48,500	50,000	48,160	60,951	58,000	---	---	54,625	51,500	
	---	---	30,250	36,150	44,500	45,000	51,000	52,000	---	54,000	49,750	45,750	
	---	---	---	28,000	33,075	36,400	44,225	39,000	---	---	45,625	36,188	
	---	---	30,250	36,879	42,452	42,824	52,052	48,571	---	54,000	50,000	43,987	
	---	---	11,667	9,824	8,362	8,131	8,942	9,641	---	---	4,950	9,992	
	0	0	2	7	10	5	4	7	0	1	4	40	
18-22	---	---	---	---	56,000	---	63,150	57,500	---	---	---	60,000	
	---	---	---	40,500	45,200	35,000	60,000	45,000	---	70,000	30,500	49,000	
	---	---	---	---	40,000	---	52,500	38,500	---	---	---	38,500	
	---	---	---	40,500	47,067	35,000	58,550	47,000	---	70,000	30,500	48,744	
	---	---	---	10,607	8,162	---	6,034	10.132	---	---	---	12,049	
	0	0	0	2	3	1	4	4	0	1	1	16	
23-32	---	---	45.500	42,150	56,000	80,000	66,000	60,750	80,000	---	76,250	57,750	
	---	25,000	45,000	35,500	55,000	46,250	49,350	56,500	60,000	---	55,000	45,250	
	---	---	40,300	32,970	52,000	40,625	38,375	44,000	41,500	---	38,850	40,000	
	---	25,000	43,600	37,513	53,667	55,625	51,033	53,750	60,500	---	56,700	49,820	
	---	---	2,869	5,854	2,082	23,307	16,745	9,535	19,255	---	19,534	15,383	
	0	1	3	6	3	4	6	4	3	0	4	34	
33-47	---	---	---	---	---	---	63,750	69,250	---	---	---	64,000	
	---	---	---	45,000	45,000	60,000	55,000	56,600	---	---	75,000	56,000	
	---	---	---	---	---	---	45,000	50,750	---	---	---	45,000	
	---	---	---	45,000	45,000	60,000	54,500	60,775	---	---	75,000	57,150	
	---	---	---	---	14,142	---	9,381	14,551	---	---	---	13,159	
	0	0	0	1	2	1	5	8	0	0	1	18	
48-67	---	---	---	---	---	57,250	70,000	72,000	---	---	---	60,844	
	---	---	37,000	---	55,500	52,500	45,300	59,100	61,425	52,000	65,000	54,500	
	---	---	---	---	---	44,000	42,000	54,000	---	---	---	46,475	
	---	---	37,000	---	55,500	51,250	52,433	61,700	61,425	52,000	65,000	54,614	
	---	---	---	---	3,536	6,994	15,302	9,277	---	---	---	9,942	
	0	0	1	0	2	4	3	3	1	1	1	16	
68-99	---	---	---	---	---	---	---	81,000	---	---	---	81,000	
	---	---	---	---	---	---	---	53,280	---	---	---	53,280	
	---	---	---	---	---	---	---	45,000	---	---	---	45,000	
	---	---	---	---	---	---	---	59,760	---	---	---	59,760	
	---	---	---	---	---	---	---	18,855	---	---	---	18,855	
	0	0	0	0	0	0	0	3	0	0	0	3	
>=100	---	---	---	---	---	100,000	70,000	75,000	---	---	---	75,000	
	---	27,000	---	46,000	60,000	80,000	60,000	70,000	57,500	---	---	60,000	
	---	---	---	---	---	77,000	16,000	50,000	---	---	---	45,000	
	---	27,000	---	46,000	60,000	85,667	48,667	65,000	57,500	---	---	59,467	
	---	---	---	5,657	---	12,503	28,729	13,229	17,678	---	---	21,686	
	0	1	0	2	1	3	3	3	2	0	0	15	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	33,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	165	53	52	95	1,111	

TABLE-3.2.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
TOTAL SUBORDINATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	---	---	36,000	40,000	45,000	53,500	55,925	58,050	56,200	68,125	45,000	46,000	- 75th %-ile
	---	---	34,200	35,000	40,000	45,200	47,500	45,300	47,444	48,000	40,000	39,300	- 50th %-ile
	---	---	32,000	32,274	35,000	38,000	41,925	37,440	42,443	40,500	34,250	34,000	- 25th %-ile
	---	---	34,549	35,714	40,539	45,586	50,935	47,950	49,372	53,664	41,145	41,631	- Mean
	---	---	4,801	6,259	9,011	12,633	13,382	14,146	10,452	17,599	10,108	11,811	- Std Dev
	0	0	99	94	67	60	36	50	26	22	49	503	- Count
1-2	---	---	38,000	42,000	45,183	58,025	57,625	58,000	64,955	66,000	46,700	49,553	
	---	---	35,000	38,000	41,750	48,000	49,578	51,000	53,000	55,000	39,000	40,550	
	---	---	33,000	35,000	36,465	39,550	40,000	44,639	46,000	43,610	35,350	35,700	
	---	---	35,624	38,591	42,064	49,252	49,269	51,867	54,710	56,657	41,792	43,555	
	---	---	4,083	5,615	8,215	11,444	10,595	11,232	14,017	17,100	9,322	11,010	
	0	0	147	180	150	110	66	83	30	33	101	900	
3-7	---	---	38,025	43,500	50,000	57,250	60,000	59,307	53,500	60,250	55,000	53,500	
	---	---	35,000	40,500	45,000	49,500	50,000	54,075	47,100	55,500	48,070	45,000	
	---	---	33,900	36,000	40,425	42,393	46,000	45,000	41,500	39,900	39,750	40,000	
	---	---	35,741	40,197	46,726	50,394	52,879	54,347	51,812	53,955	48,774	47,784	
	---	---	2,825	5,220	10,386	11,902	11,750	12,564	15,975	15,282	12,367	12,037	
	0	0	30	83	124	66	56	62	18	22	50	511	
8-12	---	---	43,850	46,700	52,250	58,200	53,250	65,570	65,000	78,250	72,000	58,475	
	---	---	39,000	44,500	47,290	50,000	49,750	60,000	58,000	64,020	53,500	49,250	
	---	---	36,420	40,000	41,683	44,000	41,750	51,625	52,600	44,000	45,075	43,075	
	---	---	39,908	42,246	48,248	51,903	47,164	58,941	61,236	61,855	60,709	51,544	
	---	---	4,100	9,239	9,067	12,286	12,921	9,772	14,625	18,175	18,260	13,778	
	0	0	5	31	54	36	18	20	11	13	22	210	
13-17	---	---	---	50,075	53,400	60,000	56,400	60,675	78,750	91,000	58,875	59,525	
	---	---	40,000	46,988	48,000	55,000	56,000	56,830	62,000	65,000	52,350	52,000	
	---	---	---	39,125	41,250	48,000	52,000	52,000	45,650	55,500	42,090	47,000	
	---	---	40,000	47,193	46,701	56,680	57,710	57,696	62,533	71,600	52,632	54,208	
	---	---	---	9,088	6,978	11,273	10,316	7,626	20,611	18,555	11,432	12,623	
	0	0	1	16	15	18	11	10	6	5	10	92	
18-22	---	---	---	52,950	67,000	58,770	77,500	72,350	67,500	69,500	73,125	67,875	
	---	---	40,000	50,500	56,500	51,750	59,000	64,750	57,500	65,000	61,500	56,000	
	---	---	---	45,500	50,524	45,750	52,150	46,750	55,000	54,875	53,100	50,508	
	---	---	40,000	50,019	58,703	55,368	64,367	62,163	60,000	63,125	63,858	59,006	
	---	---	---	7,633	8,939	13,294	13,447	14,259	7,071	7,857	14,268	12,523	
	0	0	1	8	10	16	9	8	4	4	12	72	
23-32	---	---	---	60,250	55,100	65,000	79,750	72,500	80,000	78,500	49,625	65,000	
	---	---	39,800	48,000	52,000	55,000	64,500	60,000	65,000	63,500	46,750	55,050	
	---	---	---	37,070	44,100	48,000	57,000	56,000	50,750	52,550	43,500	48,875	
	---	---	39,800	48,938	51,200	55,591	66,517	62,846	65,300	64,850	46,625	57,396	
	---	---	---	16,737	9,581	8,680	11,735	10,534	16,254	13,504	3,198	13,195	
	0	0	1	9	15	11	12	13	5	4	4	74	
33-47	---	---	---	58,500	61,875	74,000	73,750	74,000	84,000	86,500	82,500	75,000	
	---	---	---	48,000	55,000	53,900	68,300	72,000	80,000	63,000	76,000	65,000	
	---	---	---	37,665	50,300	38,150	53,249	65,000	63,000	46,320	59,250	52,665	
	---	---	---	47,443	57,800	55,350	68,158	71,846	75,667	65,273	72,000	65,003	
	---	---	---	11,179	11,906	18,606	16,416	7,244	11,150	20,186	13,903	15,081	
	0	0	0	6	8	4	12	13	3	3	6	55	
48-67	---	---	---	---	65,000	68,750	---	85,000	---	---	80,000	71,500	
	---	---	---	56,500	60,000	58,000	57,500	72,000	85,000	---	63,000	65,000	
	---	---	---	---	47,000	50,250	---	65,500	---	---	60,000	57,375	
	---	---	---	56,500	56,671	59,000	57,500	75,786	85,000	---	68,600	65,989	
	---	---	---	---	9,785	10,033	10,607	13,410	21,213	---	10,479	14,172	
	0	0	0	1	7	4	2	7	2	0	5	28	
68-99	---	---	---	---	84,625	---	82,750	82,000	74,000	95,000	---	81,500	
	---	---	---	40,000	71,750	86,500	72,000	72,600	62,500	80,000	71,000	72,300	
	---	---	---	---	48,375	---	58,750	68,000	61,000	68,000	---	53,500	
	---	---	---	40,000	68,250	86,500	72,667	74,871	65,833	81,000	71,000	72,450	
	---	---	---	---	19,538	13,435	15,858	8,425	7,112	13,528	1,414	14,135	
	0	0	0	1	4	2	6	7	3	3	2	28	
>=100	---	---	---	---	76,750	78,500	100,000	85,250	100,000	100,000	---	88,000	
	---	---	---	50,000	68,000	61,750	86,000	71,800	89,000	76,000	85,000	74,300	
	---	---	---	---	54,000	49,000	64,875	66,450	47,500	70,000	---	62,000	
	---	---	---	50,000	66,250	62,917	83,250	70,820	76,800	82,000	85,000	72,644	
	---	---	---	---	12,121	14,009	16,846	24,010	35,549	15,875	---	21,409	
	0	0	0	1	4	6	6	10	3	3	1	36	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	15,854	17,541	14,376	14,012	
	0	0	284	430	458	333	234	283	113	112	262	2,509	

TABLE-3.3.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1983 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	23,160	24,500	28,000	31,606	39,525	40,625	44,000	42,500	48,000	45,750	---	32,500	- 75th %-ile
	20,000	21,700	24,000	28,000	32,020	32,500	33,714	36,600	38,800	40,000	17,500	25,657	- 50th %-ile
	16,000	19,500	20,800	23,950	25,000	26,300	26,700	28,465	32,000	32,250	---	21,201	- 25th %-ile
	19,955	21,830	24,681	28,361	33,269	34,983	38,678	37,716	40,130	38,931	17,500	28,327	- Mean
	4,937	4,336	5,624	6,563	11,199	13,138	16,304	12,301	13,970	10,179	---	10,924	- Std Dev
	51	199	183	97	66	50	37	73	35	24	1	816	- Count
1-2	25,750	25,410	30,750	34,825	39,950	42,000	45,750	44,500	42,000	54,150	---	39,000	
	22,050	23,500	27,000	30,500	36,000	36,600	43,450	39,000	36,000	44,180	---	31,600	
	19,490	20,000	24,000	26,000	32,600	32,184	36,225	33,000	32,000	30,308	---	25,000	
	22,783	23,373	27,352	30,815	37,680	38,020	43,480	39,330	37,808	46,589	---	33,249	
	4,704	5,244	5,380	6,359	9,999	8,336	12,718	9,345	8,015	17,823	---	10,963	
	6	57	96	48	33	31	28	63	23	18	0	403	
3-7	27,000	29,000	33,150	37,140	42,500	45,000	50,400	50,500	47,000	51,000	---	42,000	
	22,880	24,000	29,000	33,000	37,800	41,050	44,000	40,000	40,900	43,000	---	35,000	
	19,000	21,375	24,750	28,000	30,100	33,968	40,000	35,000	35,265	38,800	---	28,500	
	22,960	25,140	29,660	32,926	36,455	40,226	45,419	43,153	41,425	44,120	---	35,945	
	4,001	5,416	6,452	6,650	7,269	7,944	7,513	12,224	8,294	9,731	---	10,262	
	3	38	61	75	33	36	27	51	26	15	0	365	
8-12	---	30,400	33,538	49,500	47,125	50,400	50,000	62,000	44,750	62,250	---	50,000	
	---	28,000	30,050	38,350	38,250	42,100	47,000	52,600	40,600	49,000	---	41,000	
	---	22,250	28,250	32,160	34,710	38,650	38,000	42,500	32,550	42,750	---	33,225	
	---	26,660	30,968	41,128	39,920	44,555	44,633	54,239	39,300	51,788	---	42,998	
	---	4,470	3,865	10,865	8,568	10,677	6,051	16,267	6,529	12,815	---	13,100	
	0	5	20	16	14	22	15	25	4	8	0	129	
13-17	---	---	34,000	50,000	41,800	56,750	59,625	59,950	---	---	---	51,000	
	---	29,000	40,500	35,000	37,000	41,500	43,500	44,000	---	61,250	---	40,000	
	---	---	21,750	25,000	32,498	32,875	35,405	39,875	---	---	---	33,750	
	---	29,000	28,750	36,667	38,066	46,417	47,140	49,485	---	61,250	---	43,300	
	---	---	6,702	12,583	8,682	18,964	17,639	12,139	---	3,182	---	14,447	
	0	1	4	3	9	6	6	10	0	2	0	41	
18-22	---	---	---	---	49,875	91,000	---	52,000	---	55,000	---	53,673	
	---	25,000	32,400	31,500	45,750	56,000	48,250	51,000	---	55,000	---	48,250	
	---	---	---	---	41,250	28,000	---	45,000	---	54,230	---	37,900	
	---	25,000	32,400	31,500	45,625	58,333	48,250	52,286	---	54,743	---	47,376	
	---	---	6,788	2,121	4,535	31,565	2,475	9,793	---	445	---	14,515	
	0	1	2	2	4	3	2	7	0	3	0	24	
23-32	---	---	---	42,785	60,000	52,350	49,200	63,750	---	---	---	53,000	
	---	35,000	---	38,000	52,428	46,450	44,000	41,100	92,500	---	---	42,500	
	---	---	---	33,725	37,000	34,385	40,000	40,000	---	---	---	40,000	
	---	35,000	---	38,170	49,809	44,395	44,400	51,200	92,500	---	---	49,569	
	---	---	---	4,689	11,721	9,581	4,613	19,882	10,607	---	---	18,302	
	0	1	0	4	3	4	3	6	2	0	0	23	
33-47	---	---	---	---	---	62,000	58,750	71,000	---	---	---	65,000	
	---	---	---	38,000	66,000	58,320	54,100	60,000	51,550	---	---	56,660	
	---	---	---	---	---	39,630	43,300	45,800	---	---	---	39,723	
	---	---	---	38,000	66,000	53,317	52,050	58,720	51,550	---	---	54,303	
	---	---	---	---	---	11,995	8,533	14,477	21,850	---	---	12,545	
	0	0	0	1	1	3	4	5	2	0	0	16	
48-67	---	---	---	---	---	---	---	87,000	---	---	---	85,000	
	---	---	30,000	100,000	57,250	75,000	50,280	75,500	93,600	80,000	---	73,000	
	---	---	---	---	---	---	---	48,250	---	---	---	45,030	
	---	---	30,000	100,000	57,250	75,000	50,280	70,250	93,600	80,000	---	67,282	
	---	---	---	---	10,960	---	13,746	21,391	---	---	---	22,119	
	0	0	1	1	2	1	2	4	1	1	0	13	
68-99	---	---	---	---	---	---	---	---	---	---	---	66,750	
	---	---	---	57,000	62,500	60,000	64,800	72,000	---	---	---	62,400	
	---	---	---	---	---	---	---	---	---	---	---	59,250	
	---	---	---	57,000	62,500	60,000	64,800	72,000	---	---	---	63,133	
	---	---	---	---	3,536	---	---	---	---	---	---	5,332	
	0	0	0	1	2	1	1	1	0	0	0	6	
>=100	---	---	---	---	---	---	---	90,000	---	---	---	86,850	
	---	---	---	---	---	---	65,000	76,000	72,900	---	---	75,500	
	---	---	---	---	---	---	---	75,000	---	---	---	63,750	
	---	---	---	---	---	---	65,000	80,333	72,900	---	---	75,300	
	---	---	---	---	---	---	---	8,386	18,243	---	---	11,551	
	0	0	0	0	0	0	1	3	2	0	0	6	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,932	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	
	60	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-5.3.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1985 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	---	26,725	30,013	33,000	39,159	42,900	40,750	46,375	48,486	46,500	39,050	39,000	- 75th $-ile
	---	23,750	26,000	29,225	35,000	39,250	33,500	39,660	39,350	42,000	29,000	31,000	- 50th $-ile
	---	20,700	23,454	25,063	30,644	32,500	27,500	36,000	32,500	37,100	22,150	25,725	- 25th $-ile
	---	23,378	26,974	30,015	35,282	38,245	33,666	41,617	40,439	42,729	30,772	32,938	- Mean
	---	5,052	5,165	6,410	7,191	8,707	9,038	12,418	10,515	9,768	9,468	9,922	- Std Dev
	0	20	98	68	45	36	20	48	15	21	33	404	- Count
1-2	---	28,575	32,725	35,950	41,500	41,625	50,000	46,000	56,750	46,190	41,805	41,235	
	---	28,300	27,937	32,000	35,300	37,370	43,005	40,400	41,750	42,000	36,000	34,420	
	---	24,000	24,000	27,250	29,100	34,250	34,788	34,200	38,000	36,000	27,875	28,875	
	---	26,354	28,251	32,516	35,976	38,003	41,022	41,055	46,637	42,505	37,168	35,863	
	---	3,173	5,514	7,072	6,579	5,635	12,621	10,239	15,043	10,427	12,025	10,470	
	0	9	48	60	35	16	18	43	14	17	26	286	
3-7	---	28,600	32,880	40,000	47,600	46,750	60,000	50,000	52,250	56,000	55,000	45,000	
	---	24,700	30,000	32,500	36,750	42,000	47,800	41,000	38,500	50,700	36,000	36,795	
	---	22,744	24,500	28,865	31,400	39,250	42,000	35,000	35,250	39,500	30,500	30,275	
	---	25,434	29,222	33,982	38,408	44,633	48,293	42,375	45,157	48,940	41,483	38,562	
	---	3,515	5,819	7,342	10,077	12,384	11,010	8,267	16,014	12,431	13,788	11,762	
	0	5	37	42	35	16	15	27	14	10	23	224	
8-12	---	29,000	38,625	40,500	50,000	56,350	56,000	56,500	72,500	---	80,000	52,000	
	---	25,500	35,500	37,000	47,400	41,000	50,000	52,000	56,500	49,000	45,500	44,000	
	---	23,500	27,375	33,400	31,800	35,750	45,030	44,125	41,500	---	36,800	36,300	
	---	26,000	33,833	36,469	42,0[illegible]	44,185	52,007	54,206	57,500	49,000	52,769	45,752	
	---	2,944	5,317	5,550	10,101	12,663	10,086	12,550	16,465	1,414	19,377	14,061	
	0	4	6	13	7	13	9	16	6	2	7	83	
13-17	---	---	---	46,500	50,000	69,850	63,981	59,000	---	---	---	50,500	
	---	---	22,000	38,575	45,200	46,620	51,000	43,000	---	---	49,750	45,600	
	---	---	---	28,500	33,100	36,400	48,075	37,000	---	---	---	35,863	
	---	---	22,000	37,456	43,33[illegible]	51,824	53,735	47,000	---	---	49,750	45,116	
	---	---	---	9,191	8,7[illegible]	22,805	8,657	11,336	---	---	5,303	12,869	
	0	0	1	8	11	5	6	5	0	0	2	38	
18-22	---	---	---	---	---	---	---	62,500	---	---	---	60,000	
	---	---	45,000	33,000	40,000	35,000	52,500	47,500	80,000	70,000	37,750	45,000	
	---	---	---	---	---	---	---	39,500	---	---	---	38,500	
	---	---	45,000	33,000	40,000	35,000	52,500	50,500	80,000	70,000	37,750	49,156	
	---	---	---	---	---	---	10,607	12,390	---	---	10,253	14,667	
	0	0	1	1	1	1	2	6	1	1	2	16	
23-32	---	---	---	44,100	---	50,000	59,000	59,600	---	---	---	56,750	
	---	---	42,900	34,000	54,500	42,500	54,000	57,000	60,000	---	65,000	49,000	
	---	---	---	32,940	---	40,000	43,350	48,000	---	---	---	40,225	
	---	---	42,900	37,616	54,500	44,167	51,740	54,440	60,000	---	65,000	48,803	
	---	---	5,677	6,544	2,121	5,204	8,470	8,400	---	---	---	9,841	
	0	0	2	5	2	3	5	5	1	0	1	24	
33-47	---	---	---	---	---	---	68,500	65,750	---	---	---	65,500	
	---	---	---	45,000	55,000	58,000	63,750	56,000	---	---	75,000	57,000	
	---	---	---	---	---	---	49,625	52,210	---	---	---	52,210	
	---	---	---	45,000	55,000	58,000	60,625	59,538	---	---	75,000	59,493	
	---	---	---	---	---	---	10,827	13,161	---	---	---	11,854	
	0	0	0	1	1	1	4	10	0	0	1	18	
48-67	---	---	---	---	---	---	---	---	---	---	---	71,500	
	---	---	---	---	58,000	46,000	70,000	76,500	61,425	52,000	---	59,713	
	---	---	---	---	---	---	---	---	---	---	---	50,500	
	---	---	---	---	58,000	46,000	70,000	76,500	61,425	52,000	---	60,803	
	---	---	---	---	---	5,657	---	6,364	---	---	---	12,950	
	0	0	0	0	1	2	1	2	1	1	0	8	
68-99	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
>=100	---	---	---	---	---	100,000	---	---	---	---	---	77,750	
	---	27,000	---	50,000	60,000	80,000	38,000	50,000	45,000	---	---	55,000	
	---	---	---	---	---	77,000	---	---	---	---	---	40,500	
	---	27,000	---	50,000	60,000	85,667	38,000	50,000	45,000	---	---	56,500	
	---	---	---	---	---	12,503	31,113	---	---	---	---	24,981	
	0	1	0	1	1	3	2	1	1	0	0	10	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	

TABLE-3.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1983 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
0	---	---	36,000	40,000	44,250	54,000	58,000	58,600	56,200	70,000	45,000	47,500	- 75th $-ile
	---	---	34,250	35,000	40,000	45,400	48,000	48,000	47,750	51,000	39,600	40,000	- 50th $-ile
	---	---	32,000	32,280	34,850	38,000	41,900	37,876	42,443	41,000	34,000	34,000	- 25th $-ile
	---	---	34,611	35,707	40,234	45,837	51,013	49,687	49,883	54,992	40,922	42,234	- Mean
	---	---	4,773	6,226	9,045	12,449	13,158	15,486	11,054	19,413	10,128	12,523	- Std Dev
	0	0	102	95	70	63	43	57	30	27	50	537	- Count
1-2	---	---	38,000	42,000	45,600	58,000	57,625	58,000	64,955	65,000	46,550	49,000	
	---	---	35,000	38,000	42,000	47,580	49,578	51,000	53,000	54,000	39,100	40,500	
	---	---	33,000	35,000	36,708	39,000	39,988	44,604	46,000	41,220	35,500	35,685	
	---	---	35,560	38,634	42,629	48,895	[illegible]	52,119	54,941	55,371	41,865	43,499	
	---	---	4,057	5,690	8,979	11,909	12,142	12,162	14,037	14,628	9,212	11,113	
	0	0	148	182	150	111	66	78	26	31	102	894	
3-7	---	---	38,325	43,500	50,000	57,250	58,750	58,788	54,500	60,750	55,000	53,000	
	---	---	35,000	40,500	45,500	50,000	50,000	53,500	49,500	54,500	48,140	45,400	
	---	---	33,900	36,175	40,663	43,000	46,250	45,000	42,250	39,700	40,500	40,000	
	---	---	36,009	40,210	46,462	51,087	51,802	53,221	51,881	53,800	49,010	47,581	
	---	---	2,893	5,163	9,384	10,906	9,787	10,105	15,134	16,050	12,381	11,072	
	0	0	26	85	132	66	52	61	20	20	49	511	
8-12	---	---	43,850	46,775	53,250	59,750	53,500	65,190	67,000	82,500	72,000	60,000	
	---	---	39,000	44,500	47,000	50,000	50,000	59,000	58,000	65,000	53,500	50,000	
	---	---	36,420	38,375	41,000	44,250	43,500	51,875	51,300	48,500	45,075	43,500	
	---	---	39,908	42,071	48,194	52,903	48,126	58,628	61,215	65,855	60,845	52,312	
	---	---	4,100	9,522	9,598	12,572	12,822	9,652	14,318	18,679	18,124	14,204	
	0	0	5	30	49	40	17	22	13	13	22	211	
13-17	---	---	---	50,640	50,850	60,000	76,000	65,800	87,250	87,375	62,500	61,000	
	---	---	40,000	47,000	46,800	55,000	56,000	58,000	70,000	63,500	55,000	53,400	
	---	---	---	45,000	42,563	47,000	52,756	54,000	43,750	58,250	44,060	46,975	
	---	---	40,000	49,068	46,108	56,196	61,370	59,662	67,000	69,083	56,486	55,661	
	---	---	---	9,220	6,351	11,888	11,980	8,363	23,930	15,730	13,579	13,175	
	0	0	1	16	14	15	13	9	4	6	13	91	
18-22	---	---	---	52,850	66,000	56,290	75,000	75,600	65,000	69,500	72,750	66,250	
	---	---	40,000	50,500	56,000	52,000	60,000	63,500	55,000	63,500	58,000	55,000	
	---	---	---	46,688	50,532	46,500	52,300	52,250	53,250	54,125	50,900	51,000	
	---	---	40,000	48,992	58,094	54,660	61,845	63,530	58,300	62,375	62,033	58,549	
	---	---	---	5,862	8,717	13,072	10,592	13,897	7,208	8,138	14,692	11,797	
	0	0	1	6	11	13	11	10	5	4	9	70	
23-32	---	---	---	65,375	61,875	65,000	80,750	68,250	---	77,500	59,375	70,000	
	---	---	39,800	44,000	53,500	56,000	70,000	60,000	77,500	65,500	49,250	60,000	
	---	---	---	36,035	49,775	49,125	59,000	56,000	---	49,380	44,375	50,000	
	---	---	39,800	49,163	53,908	58,458	71,736	60,917	77,500	64,287	51,000	60,021	
	---	---	---	17,467	10,230	10,782	15,337	9,346	17,678	14,015	8,236	14,584	
	0	0	1	5	12	12	14	12	2	6	4	71	
33-47	---	---	---	59,000	65,050	78,000	70,000	74,000	96,000	---	84,000	75,000	
	---	---	---	51,000	57,500	45,800	65,000	72,000	82,000	---	80,000	65,000	
	---	---	---	42,500	51,250	35,600	53,833	65,000	67,250	---	60,750	55,000	
	---	---	---	50,800	59,763	53,133	65,344	71,846	81,750	---	73,900	66,172	
	---	---	---	8,468	11,742	22,131	15,220	7,244	15,196	---	14,648	14,729	
	0	0	0	5	8	3	9	13	4	0	5	47	
48-67	---	---	---	---	73,000	70,000	---	85,000	---	---	80,000	75,750	
	---	---	---	48,250	62,500	65,000	50,000	75,000	66,250	---	63,000	65,250	
	---	---	---	---	49,250	50,000	---	70,000	---	---	60,000	59,125	
	---	---	---	48,250	62,667	61,667	50,000	77,929	66,250	---	68,600	66,481	
	---	---	---	11,667	13,837	10,408	---	11,534	5,303	---	10,479	13,578	
	0	0	0	2	6	3	1	7	2	0	5	26	
68-99	---	---	---	---	83,500	---	76,500	84,000	95,000	91,250	---	81,000	
	---	---	---	---	60,000	86,500	72,000	71,300	77,000	75,000	71,000	72,600	
	---	---	---	---	44,500	---	66,750	67,625	64,250	68,500	---	68,000	
	---	---	---	---	62,667	86,500	71,750	74,850	78,750	78,250	71,000	74,684	
	---	---	---	---	19,636	13,435	5,123	9,229	16,235	12,339	1,414	12,242	
	0	0	0	0	3	2	4	6	4	4	2	25	
>=100	---	---	---	---	79,000	70,750	100,000	93,750	100,000	---	---	93,500	
	---	---	---	50,000	70,000	60,000	96,000	71,800	89,000	100,000	85,000	75,800	
	---	---	---	---	50,000	48,000	83,000	68,700	15,000	---	---	57,500	
	---	---	---	50,000	66,333	59,500	93,000	71,650	68,000	100,000	85,000	72,335	
	---	---	---	---	14,844	12,560	9,452	26,854	46,228	---	---	24,320	
	0	0	0	1	3	5	4	8	3	1	1	26	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	[illegible]	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,541	14,376	14,012	
	0	0	284	430	458	333	234	283	113	112	262	2,509	

TABLE-3.4.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	29,000	35,275	43,250	46,500	50,300	50,600	59,300	60,000	57,000	---	50,200	- 75th %-ile
	24,000	24,276	34,000	34,322	40,000	42,250	45,000	49,000	44,000	50,000	---	41,000	- 50th %-ile
	---	24,000	27,875	31,250	36,600	38,075	41,000	40,000	38,800	39,900	---	35,000	- 25th %-ile
	24,000	25,611	32,603	36,770	42,304	44,150	47,623	50,615	50,833	49,168	---	43,510	- Mean
	---	3,672	8,260	8,775	10,920	7,408	9,133	12,170	17,310	10,584	---	12,909	- Std Dev
	1	7	22	28	15	16	19	45	15	13	0	181	- Count
Basic Research	23,610	24,218	30,000	34,000	40,325	44,800	45,000	56,000	---	---	---	30,000	
	21,550	22,900	25,010	28,750	29,290	28,500	33,714	31,000	40,000	---	---	25,000	
	16,950	20,246	22,225	26,100	25,313	25,000	29,000	28,000	---	---	---	22,000	
	21,003	22,512	25,857	29,420	32,572	32,900	35,905	39,800	40,000	---	---	26,740	
	4,150	3,916	4,597	4,736	9,803	9,919	8,222	14,973	5,657	---	---	7,651	
	12	32	34	16	6	6	3	5	2	0	0	116	
Applied R&D	26,000	25,000	30,000	34,000	39,525	43,250	50,800	46,000	44,788	48,850	---	38,000	
	22,000	22,570	26,399	30,000	35,750	39,192	40,500	39,500	40,200	41,100	17,500	29,500	
	19,400	20,000	22,600	26,000	29,325	30,981	36,006	34,000	33,555	35,250	---	23,550	
	22,183	22,695	26,094	30,162	34,750	37,617	41,855	40,991	38,801	43,185	17,500	31,382	
	5,760	3,726	4,776	6,104	7,406	9,757	9,004	11,118	9,472	12,590	---	10,340	
	17	114	107	69	54	54	26	63	24	20	1	549	
Mgt Non-R&D	---	28,950	34,000	41,840	51,750	66,500	60,000	74,000	55,250	61,250	---	52,000	
	---	25,650	31,500	37,500	44,750	50,000	48,600	55,000	45,000	45,000	---	40,000	
	---	22,500	28,000	30,600	33,025	40,210	41,500	39,700	37,900	36,250	---	32,000	
	---	25,925	31,907	40,546	43,089	54,301	49,119	57,246	51,985	47,500	---	45,097	
	---	6,022	7,031	16,766	13,406	20,220	12,328	20,365	22,087	13,229	---	18,680	
	0	12	23	17	16	16	14	28	13	4	0	143	
Marketing	---	30,000	33,625	38,280	57,000	50,250	67,500	48,250	46,000	58,500	---	45,000	
	14,650	26,400	30,000	34,500	44,400	40,000	46,000	39,500	35,700	46,000	---	35,124	
	---	20,000	24,875	30,000	36,600	34,700	42,000	33,750	32,375	39,750	---	30,000	
	14,650	25,328	29,965	35,555	48,422	42,789	52,196	42,086	42,132	50,430	---	38,830	
	495	8,204	6,597	9,265	14,236	11,474	17,098	12,668	16,394	15,160	---	14,389	
	2	19	34	26	15	22	15	30	14	10	0	187	
Prod & QC	22,290	24,468	28,000	32,000	39,400	39,158	46,370	40,963	46,000	47,250	---	33,703	
	19,000	21,000	25,000	27,000	32,738	33,729	39,380	37,820	35,280	36,705	---	26,458	
	16,600	18,973	21,375	23,400	24,675	30,750	26,525	30,000	30,500	24,505	---	21,950	
	19,464	21,409	25,007	28,348	33,202	34,127	37,109	38,212	37,644	36,260	---	28,686	
	3,970	4,889	5,137	7,061	11,170	5,804	12,424	13,384	10,038	12,712	---	10,106	
	17	66	97	67	34	22	22	40	13	8	0	386	
Forsenic	19,350	24,200	25,500	31,452	36,000	32,800	41,250	45,750	41,000	---	---	32,796	
	18,000	21,900	20,785	28,080	33,800	31,000	33,450	40,000	34,560	65,000	---	25,700	
	16,000	20,000	18,550	24,750	29,000	26,500	27,156	27,393	33,450	---	---	20,000	
	17,740	21,420	22,440	28,067	33,273	31,042	34,287	37,257	36,337	65,000	---	27,220	
	1,743	3,413	5,011	6,230	4,648	6,662	7,508	9,451	4,077	---	---	8,754	
	5	23	17	13	11	7	6	5	3	1	0	91	
Writing/ Editing	---	---	---	---	---	---	---	37,000	---	---	---	33,522	
	---	17,675	27,660	---	31,000	---	42,840	34,362	27,150	28,000	---	29,365	
	---	---	---	---	---	---	---	28,730	---	---	---	24,725	
	---	17,675	27,660	---	31,000	---	42,840	33,364	27,150	28,000	---	28,937	
	---	3,783	---	---	---	---	---	4,224	4,031	2,828	---	7,349	
	0	2	1	0	1	0	1	3	2	2	0	12	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	25,750	
	---	24,960	22,250	---	---	---	26,500	---	25,000	---	---	24,960	
	---	---	---	---	---	---	---	---	---	---	---	22,250	
	---	24,960	22,250	---	---	---	26,500	---	25,000	---	---	24,192	
	---	---	3,182	---	---	---	---	---	---	---	---	2,462	
	0	1	2	0	0	0	1	0	1	0	0	5	
Consulting	---	---	25,000	---	---	---	---	---	---	---	---	44,760	
	30,900	17,800	24,000	38,000	45,500	53,000	---	---	36,000	34,260	---	30,900	
	---	---	20,384	---	---	---	---	---	---	---	---	24,000	
	30,900	17,800	23,128	38,000	45,500	53,000	---	---	36,000	34,260	---	33,893	
	---	---	2,428	---	707	---	---	---	8,485	14,510	---	11,442	
	1	1	3	1	2	1	0	0	2	2	0	13	
Other	21,500	29,000	24,000	39,098	36,500	52,000	42,100	41,490	---	58,750	---	38,400	
	15,500	23,319	22,500	32,070	29,750	33,000	39,600	35,350	42,000	50,500	---	29,700	
	10,000	16,500	19,200	23,250	21,875	32,500	38,000	31,788	---	34,000	---	21,942	
	15,667	22,488	21,963	31,475	29,375	39,167	39,900	37,839	42,000	47,750	---	30,846	
	5,752	6,649	2,766	8,374	7,825	11,117	2,066	8,938	---	13,175	---	11,703	
	3	8	8	4	4	3	3	8	1	4	0	46	
No Response	---	29,440	31,000	40,000	39,400	59,240	49,500	44,750	49,408	60,000	---	41,000	
	21,670	23,000	25,200	33,000	38,000	31,300	43,330	36,000	40,000	50,000	---	33,000	
	---	18,400	23,500	32,000	30,550	25,620	34,305	27,100	33,000	35,000	---	25,100	
	21,670	24,184	27,117	36,429	36,056	39,830	44,555	38,157	40,963	49,714	---	35,526	
	2,362	6,392	5,273	7,547	6,706	16,759	14,547	13,240	9,977	19,059	---	13,615	
	2	17	19	7	9	10	16	21	5	7	0	113	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,932	10,9[illegible]7	12,615	12,754	14,639	15,023	13,944	---	13,249	
	60	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-3.4.2

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -MEN Only
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	27,000	35,350	44,750	47,250	50,700	50,600	58,600	63,500	57,000	---	50,650	- 75th %-ile
	24,000	24,000	34,750	34,500	41,500	42,250	45,000	47,450	46,800	50,000	---	42,000	- 50th %-ile
	---	22,500	28,210	30,750	37,275	39,025	41,000	40,000	39,400	39,900	---	35,100	- 25th %-ile
	24,000	24,600	33,539	37,035	41,930	44,600	47,625	50,016	52,877	49,168	---	44,136	- Mean
	---	2,881	8,326	9,056	9,704	7,598	9,133	11,857	17,757	10,584	---	12,735	- Std Dev
	1	5	17	26	10	14	19	43	13	13	0	161	- Count
Basic Research	23,160	24,180	30,000	34,000	46,775	44,800	45,000	56,000	---	---	---	30,870	
	21,600	20,692	27,000	29,500	34,550	28,500	33,714	31,000	40,000	---	---	26,000	
	21,000	18,063	24,392	26,280	26,000	25,000	29,000	28,000	---	---	---	23,040	
	21,346	21,369	26,439	30,010	35,775	32,900	35,905	39,800	40,000	---	---	28,168	
	2,722	4,230	4,535	4,176	10,909	9,919	8,222	14,973	5,657	---	---	8,725	
	7	16	17	12	4	6	3	5	2	0	0	72	
Applied R&D	23,967	25,000	30,000	34,250	41,250	45,000	50,800	46,000	44,788	46,750	---	39,615	
	21,200	22,000	27,000	30,000	36,119	39,975	40,500	39,100	40,200	40,100	17,500	31,260	
	19,600	20,000	23,000	26,300	31,300	32,796	36,000	34,000	35,415	34,500	---	25,000	
	22,274	22,614	26,705	30,585	36,504	38,749	41,855	40,641	39,437	42,433	17,500	32,870	
	4,142	3,491	4,696	6,158	6,615	9,504	9,004	11,203	9,468	13,075	---	10,498	
	11	67	77	58	42	46	26	60	20	18	1	426	
Mgt Non-R&D	---	29,000	34,000	43,680	53,250	63,000	60,000	75,000	55,250	61,250	---	55,750	
	---	27,300	32,000	37,500	47,700	50,000	50,000	55,000	45,000	45,000	---	40,000	
	---	24,000	29,000	31,000	35,675	40,540	41,000	40,000	37,900	36,250	---	32,900	
	---	27,055	33,005	41,272	43,979	55,006	49,266	57,900	51,985	47,500	---	46,078	
	---	4,802	6,631	17,692	14,017	19,283	12,819	20,451	22,087	13,229	---	18,684	
	0	11	19	15	14	13	13	27	13	4	0	129	
Marketing	---	30,500	34,000	38,840	59,000	50,250	69,375	48,250	48,000	58,500	---	45,750	
	14,650	26,400	30,000	34,500	44,700	40,000	47,600	39,500	37,700	46,000	---	36,000	
	---	18,250	25,000	30,000	38,400	34,700	42,000	33,750	32,125	39,750	---	30,000	
	14,650	25,478	30,401	35,785	49,380	42,789	52,781	42,086	43,227	50,430	---	39,325	
	495	8,575	6,407	9,500	14,262	11,474	17,587	12,668	17,563	15,160	---	14,567	
	2	17	31	24	14	22	14	30	12	10	0	176	
Prod & QC	21,995	25,000	28,225	32,600	40,000	39,723	50,500	41,800	46,000	48,000	---	35,500	
	19,700	21,600	25,945	28,000	35,000	33,979	40,000	38,000	35,280	43,000	---	28,000	
	16,825	19,125	22,000	23,650	25,000	31,542	34,734	30,800	30,500	25,000	---	23,000	
	19,748	21,670	25,791	28,942	34,727	35,150	40,825	39,021	37,644	38,536	---	30,363	
	3,191	5,216	4,886	7,318	11,385	5,276	10,092	13,425	10,038	11,841	---	10,444	
	10	40	74	57	29	18	18	37	13	7	0	303	
Forensic	19,350	23,638	29,000	36,000	35,650	32,800	41,250	46,875	---	---	---	33,527	
	18,000	20,950	22,500	30,500	33,676	31,000	33,450	41,750	37,225	65,000	---	26,655	
	16,000	18,200	19,325	26,000	29,949	26,500	27,156	30,089	---	---	---	20,000	
	17,740	20,634	23,700	29,669	33,284	31,042	34,287	39,571	37,225	65,000	---	28,366	
	1,743	3,464	5,287	7,470	4,121	6,662	7,508	9,131	5,339	---	---	9,547	
	5	12	12	7	8	7	6	4	2	1	0	64	
Writing/ Editing	---	---	---	---	---	---	---	37,000	---	---	---	36,341	
	---	15,000	---	---	---	---	---	34,362	---	---	---	31,546	
	---	---	---	---	---	---	---	28,730	---	---	---	18,433	
	---	15,000	---	---	---	---	---	33,364	---	---	---	28,773	
	---	---	---	---	---	---	---	4,224	---	---	---	9,808	
	0	1	0	0	0	0	0	3	0	0	0	4	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	26,500	
	---	24,960	24,500	---	---	---	26,500	---	---	---	---	24,960	
	---	---	---	---	---	---	---	---	---	---	---	24,500	
	---	24,960	24,500	---	---	---	26,500	---	---	---	---	25,320	
	---	---	---	---	---	---	---	---	---	---	---	1,047	
	0	1	1	0	0	0	1	0	0	0	0	3	
Consulting	---	---	---	---	---	---	---	---	---	---	---	45,000	
	30,900	17,800	22,692	38,000	45,500	53,000	---	---	30,000	34,260	---	30,900	
	---	---	---	---	---	---	---	---	---	---	---	24,000	
	30,900	17,800	22,692	38,000	45,500	53,000	---	---	30,000	34,260	---	34,055	
	---	---	3,264	---	707	---	---	---	---	14,510	---	11,862	
	1	1	2	1	2	1	0	0	1	2	0	11	
Other	---	28,900	24,000	39,098	37,000	---	42,100	45,750	---	60,000	---	39,960	
	10,000	21,768	23,000	32,070	35,000	42,500	39,600	37,830	42,000	55,000	---	34,000	
	---	14,032	18,500	23,250	21,000	---	38,000	32,500	---	30,000	---	23,000	
	10,000	21,526	21,833	31,473	31,000	42,500	39,900	39,443	42,000	48,333	---	33,238	
	---	7,604	2,930	8,374	8,718	13,435	2,066	9,896	---	16,073	---	12,578	
	1	3	3	4	3	2	3	6	1	3	0	31	
No Response	---	31,475	32,050	43,000	39,700	55,740	56,500	44,500	42,000	60,000	---	42,950	
	---	25,000	27,700	34,000	38,300	31,300	43,860	36,000	40,000	50,000	---	35,000	
	---	22,338	24,625	32,750	34,500	26,775	38,610	28,200	30,000	35,000	---	27,650	
	---	26,625	28,252	37,500	37,438	38,490	47,337	38,174	37,333	49,714	---	37,442	
	---	5,739	5,527	7,662	5,635	15,451	13,974	13,266	6,429	19,059	---	13,284	
	0	10	14	6	8	8	13	19	3	7	0	88	
TOTAL	22,910	25,333	30,678	36,000	45,000	46,750	50,550	50,000	49,000	53,500	---	41,465	
	20,424	22,570	27,300	31,200	37,000	39,880	43,000	40,000	40,000	43,000	17,500	33,000	
	16,875	19,950	23,500	26,655	32,187	32,092	38,000	35,000	35,000	35,690	---	25,515	
	20,390	22,886	27,600	32,481	38,503	40,559	44,675	43,923	43,731	46,055	17,500	35,360	
	4,356	5,176	6,033	9,254	10,837	12,138	12,238	14,637	15,646	13,860	---	13,530	
	38	186	267	210	134	137	116	234	80	65	1	1,468	

TABLE-3.4.3

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1985 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	35,000	---	60,927	---	---	---	---	---	---	41,427	- 75th %-ile
	---	28,138	34,000	33,322	42,854	41,000	---	75,000	37,550	---	---	35,500	- 50th %-ile
	---	---	21,550	---	36,250	---	---	---	---	---	---	32,000	- 25th %-ile
	---	28,138	29,420	33,322	46,677	41,000	---	75,000	37,550	---	---	38,268	- Mean
	---	5,462	8,033	1,870	13,605	7,071	---	---	2,051	---	---	13,708	- Std Dev
	0	2	5	2	4	2	0	1	2	0	0	18	- Count
Basic Research	26,308	25,000	29,500	34,125	---	---	---	---	---	---	---	26,400	
	21,000	23,800	24,300	26,400	26,165	---	---	---	---	---	---	24,050	
	14,500	22,000	21,025	22,425	---	---	---	---	---	---	---	21,075	
	20,523	23,885	24,935	27,650	26,165	---	---	---	---	---	---	24,352	
	5,980	3,302	4,658	6,530	587	---	---	---	---	---	---	4,637	
	5	15	16	4	2	0	0	0	0	0	0	42	
Applied R&D	29,100	25,800	28,085	33,400	37,900	40,500	---	---	45,125	---	---	28,600	
	23,850	22,650	23,500	26,500	26,000	31,000	---	49,000	35,750	49,950	---	24,650	
	13,000	20,000	21,225	22,200	23,000	26,000	---	---	26,000	---	---	21,413	
	22,017	22,811	24,526	27,945	28,439	31,263	---	49,000	35,625	49,950	---	25,996	
	8,474	4,074	4,694	5,545	7,263	9,849	---	9,899	10,193	2,192	---	7,729	
	6	47	30	11	11	7	0	2	4	2	0	120	
Mgt Non-R&D	---	---	33,750	---	---	83,000	---	---	---	---	---	42,309	
	---	13,500	26,875	35,100	36,860	43,236	47,200	39,600	---	---	---	33,360	
	---	---	19,438	---	---	27,500	---	---	---	---	---	26,563	
	---	13,500	26,688	35,100	36,860	51,245	47,200	39,600	---	---	---	36,050	
	---	---	7,398	6,930	7,269	28,604	---	---	---	---	---	16,625	
	0	1	4	2	2	3	1	1	0	0	0	14	
Marketing	---	---	33,500	---	---	---	---	---	---	---	---	36,000	
	---	24,050	26,000	32,800	35,000	---	44,000	---	35,562	---	---	33,500	
	---	---	16,900	---	---	---	---	---	---	---	---	26,000	
	---	24,050	25,467	32,800	35,000	---	44,000	---	35,562	---	---	30,929	
	---	5,586	8,313	7,354	---	---	---	---	619	---	---	8,034	
	0	2	3	2	1	0	1	0	2	0	0	11	
Prod & QC	25,000	24,075	27,500	28,875	26,550	36,000	26,800	38,100	---	---	---	26,275	
	17,500	20,800	22,000	24,200	25,000	29,050	25,700	27,100	---	20,332	---	22,000	
	15,000	18,618	18,000	21,000	21,850	23,525	16,050	19,500	---	---	---	19,038	
	19,057	21,007	22,484	24,965	24,360	29,525	22,850	28,233	---	20,332	---	22,681	
	5,142	4,407	5,215	4,186	2,732	6,601	5,915	9,352	---	---	---	5,355	
	7	26	23	10	5	4	3	3	0	1	0	82	
Forsenic	---	24,240	21,650	30,775	39,900	---	---	---	---	---	---	28,000	
	---	22,000	20,785	25,557	33,840	---	---	28,000	34,560	---	---	24,000	
	---	20,000	16,500	22,994	26,000	---	---	---	---	---	---	20,500	
	---	22,277	19,417	26,198	33,247	---	---	28,000	34,560	---	---	24,505	
	---	3,298	2,721	4,291	6,969	---	---	---	---	---	---	5,789	
	0	11	5	6	3	0	0	1	1	0	0	27	
Writing/ Editing	---	---	---	---	---	---	---	---	---	---	---	30,750	
	---	20,350	27,660	---	31,000	---	42,840	---	27,150	28,000	---	28,830	
	---	---	---	---	---	---	---	---	---	---	---	24,725	
	---	20,350	27,660	---	31,000	---	42,840	---	27,150	28,000	---	29,019	
	---	---	---	---	---	---	---	---	4,031	2,828	---	6,604	
	0	1	1	0	1	0	1	0	2	2	0	8	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	20,000	---	---	---	---	---	25,000	---	---	22,500	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	20,000	---	---	---	---	---	25,000	---	---	22,500	
	---	---	---	---	---	---	---	---	---	---	---	3,536	
	0	0	1	0	0	0	0	0	1	0	0	2	
Consulting	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	42,000	---	---	42,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	42,000	---	---	42,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	1	0	0	1	
Other	---	29,400	24,700	---	---	---	---	---	---	---	---	31,050	
	18,500	24,869	22,000	---	24,500	32,500	---	33,025	---	46,000	---	24,500	
	---	18,000	19,400	---	---	---	---	---	---	---	---	21,300	
	18,500	24,090	22,040	---	24,500	32,500	---	33,025	---	46,000	---	25,901	
	4,243	5,740	3,012	---	---	---	---	2,795	---	---	---	7,896	
	2	3	5	0	1	1	0	2	0	1	0	15	
No Response	---	26,000	26,600	---	---	---	---	---	---	---	---	27,000	
	21,670	20,400	24,000	30,000	25,000	25,380	25,500	25,000	46,408	---	---	25,000	
	---	16,450	21,250	---	---	---	---	---	---	---	---	22,000	
	21,670	20,950	23,940	30,000	25,000	25,380	25,500	25,000	46,408	---	---	26,107	
	2,362	5,008	2,953	---	---	---	707	---	14,719	---	---	8,645	
	2	4	5	1	1	1	2	1	2	0	0	19	
TOTAL	25,029	25,000	28,000	31,805	37,900	40,875	43,710	42,000	42,000	49,175	---	29,400	
	20,500	22,378	23,000	26,450	27,000	31,750	26,400	35,000	36,000	38,000	---	24,500	
	15,000	20,000	20,778	23,925	25,000	27,125	25,175	27,100	29,000	24,583	---	21,000	
	20,384	22,464	24,049	27,823	31,052	35,031	31,699	37,850	35,827	37,039	---	26,187	
	5,868	4,219	5,212	5,475	9,597	14,510	11,326	15,807	8,811	13,183	---	8,678	
	22	112	98	38	31	18	8	11	15	6	0	359	

TABLE-3.4.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	39,329	41,085	50,275	55,775	60,750	58,200	65,000	60,500	53,500	55,000	- 75th %-ile
	---	28,000	34,200	38,500	48,000	44,310	50,500	50,000	52,500	50,000	45,000	45,000	- 50th %-ile
	---	---	31,000	31,625	32,500	38,125	42,225	40,000	41,865	41,000	32,000	36,000	- 25th %-ile
	---	28,000	34,686	38,031	42,709	45,958	51,350	50,861	54,728	30,538	44,382	45,945	- Mean
	---	2,828	6,621	9,586	12,005	10,579	11,784	13,470	14,871	13,158	15,239	13,247	- Std Dev
	0	2	14	18	21	16	22	35	8	13	11	160	- Count
Basic Research	---	25,950	31,000	37,375	38,909	42,900	51,500	49,870	61,750	---	39,025	38,500	
	---	25,000	27,000	30,050	34,000	34,500	38,000	44,000	51,000	---	30,000	31,000	
	---	23,250	23,860	24,600	31,575	30,150	12,724	39,513	42,088	---	21,000	25,500	
	---	24,711	27,691	30,951	35,800	36,733	34,075	44,553	52,225	---	32,820	32,945	
	---	2,325	4,217	6,634	5,929	6,723	20,935	6,048	11,258	---	15,539	10,489	
	0	9	27	16	13	9	4	5	6	0	10	99	
Applied R&D	---	28,830	31,100	33,300	41,350	44,000	50,000	45,250	45,612	45,250	40,000	40,000	
	---	27,000	27,000	30,000	33,200	40,000	43,456	39,860	40,000	41,500	35,250	32,550	
	---	22,500	23,676	27,000	29,475	36,100	38,000	35,000	35,500	36,650	27,369	27,818	
	---	26,383	27,637	30,569	35,144	39,823	43,604	41,034	43,380	41,382	35,534	34,329	
	---	4,025	4,675	4,887	7,030	7,745	8,028	9,153	13,912	9,124	11,622	9,349	
	0	17	89	73	44	28	22	54	9	18	34	388	
Mgt Non-R&D	---	---	43,000	43,500	53,000	60,500	65,650	73,750	78,500	---	75,000	57,500	
	---	---	32,000	40,000	45,000	48,000	56,000	54,390	62,000	52,500	55,000	48,000	
	---	---	23,500	30,000	36,000	39,550	38,250	46,250	48,500	---	28,000	36,000	
	---	---	33,000	38,157	45,538	50,450	51,490	57,232	63,000	52,500	53,826	48,457	
	---	---	11,225	7,352	9,606	17,136	18,042	17,382	16,371	14,849	22,150	16,264	
	0	0	5	14	13	10	10	12	4	2	7	77	
Marketing	---	---	31,500	41,750	49,250	60,000	63,000	49,500	62,000	54,000	57,250	48,043	
	---	14,750	26,000	35,500	39,550	42,600	43,505	42,000	50,000	43,000	43,000	40,000	
	---	---	24,600	30,000	30,000	39,600	30,125	36,000	44,000	37,000	33,500	30,500	
	---	14,750	28,083	36,444	39,840	49,655	45,585	45,617	53,855	43,714	43,625	41,082	
	---	1,768	6,629	7,466	9,592	19,172	15,743	13,730	14,157	10,579	14,332	14,305	
	0	2	13	18	10	11	6	15	7	7	8	97	
Prod & QC	---	26,585	31,000	36,750	40,000	37,700	44,145	41,300	51,713	50,000	34,500	38,110	
	---	24,000	28,000	30,890	35,000	34,000	34,000	38,500	38,000	48,000	30,000	32,000	
	---	21,800	20,000	26,275	31,200	28,400	30,125	32,600	34,500	36,000	26,500	26,900	
	---	24,123	26,558	32,166	36,082	39,822	35,436	36,866	43,325	44,667	30,792	33,382	
	---	2,943	6,995	7,134	10,896	22,987	7,193	10,540	13,345	7,572	6,473	11,018	
	0	6	27	32	19	9	10	17	9	3	13	145	
Forsenic	---	---	32,220	32,000	38,800	---	---	49,000	45,000	---	---	40,000	
	---	---	28,100	26,900	36,375	37,500	18,750	46,000	30,000	51,400	26,950	30,787	
	---	---	23,770	20,500	25,697	---	---	40,000	29,000	---	---	25,000	
	---	---	28,030	26,518	35,280	37,500	18,750	48,143	34,667	51,400	26,950	34,003	
	---	---	4,420	6,093	10,175	10,607	---	14,005	8,963	---	4,172	11,980	
	0	0	4	11	8	2	1	7	3	1	2	39	
Writing/ Editing	---	---	---	---	---	---	---	50,000	35,696	---	---	42,000	
	---	---	22,000	36,000	---	45,000	31,680	44,000	32,600	34,000	---	36,000	
	---	---	---	---	---	---	---	40,250	22,550	---	---	26,000	
	---	---	22,000	36,000	---	45,000	31,680	44,750	30,282	34,000	---	35,633	
	---	---	---	---	---	---	14,595	5,188	7,300	11,314	---	9,780	
	0	0	1	1	0	1	2	4	4	2	0	15	
Data Proc	---	---	35,400	---	---	---	---	---	---	---	---	42,450	
	---	---	33,000	41,900	43,000	---	---	---	---	---	---	35,400	
	---	---	23,000	---	---	---	---	---	---	---	---	28,000	
	---	---	30,467	41,900	43,000	---	---	---	---	---	---	35,260	
	---	---	6,577	---	---	---	---	---	---	---	---	8,053	
	0	0	3	1	1	0	0	0	0	0	0	5	
Consulting	---	---	33,000	---	40,825	---	---	---	---	---	---	38,111	
	---	19,250	24,000	37,313	36,750	30,170	49,000	33,000	35,750	25,000	20,000	32,750	
	---	---	22,000	---	31,250	---	---	---	---	---	---	23,250	
	---	19,250	26,333	37,313	36,275	30,170	49,000	33,000	35,750	26,000	20,000	31,503	
	---	5,303	5,859	159	4,977	11,554	---	4,243	4,596	---	---	8,571	
	0	2	3	2	4	2	1	2	2	1	1	20	
Other	---	---	---	---	43,525	---	---	60,300	---	---	---	45,625	
	---	23,568	32,025	33,400	39,050	48,000	28,000	47,500	---	45,000	37,000	39,050	
	---	---	---	---	36,750	---	---	39,250	---	---	---	33,013	
	---	23,568	32,025	33,400	39,775	48,000	28,000	49,320	---	45,000	37,000	39,895	
	---	---	2,793	9,334	3,614	---	---	11,300	---	---	---	10,306	
	0	1	2	2	4	1	1	5	0	1	1	18	
No Response	---	---	30,150	40,000	---	42,000	62,000	57,000	---	51,500	50,550	47,550	
	---	---	25,000	33,000	35,000	40,500	45,000	53,800	26,000	49,000	45,000	40,000	
	---	---	21,250	26,300	---	35,000	44,000	39,000	---	43,500	40,000	30,375	
	---	---	25,560	33,403	35,000	41,229	50,333	48,257	26,000	48,000	44,850	39,988	
	---	---	4,959	8,833	7,071	8,838	10,116	10,795	---	4,320	9,029	11,249	
	0	0	5	11	2	7	3	7	1	4	8	48	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,300	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	

TABLE-3.4.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -MEN Only
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	39,650	41,005	51,663	57,775	61,500	58,200	65,000	61,250	54,250	56,000	- 75th %-ile
	---	26,000	34,400	38,500	48,000	44,310	51,000	50,000	45,000	51,000	45,000	46,560	- 50th %-ile
	---	---	30,000	31,095	35,000	39,375	44,250	40,000	41,820	42,750	38,150	38,000	- 25th %-ile
	---	26,000	34,815	38,223	43,830	46,680	51,796	50,861	53,974	51,417	48,200	46,775	- Mean
	---	---	6,873	10,054	11,950	10,922	11,884	13,470	15,897	13,318	14,048	13,254	- Std Dev
	0	1	13	16	18	14	21	35	7	12	9	146	- Count
Basic Research	---	28,300	32,050	37,000	38,125	43,250	51,500	49,870	64,500	---	52,000	40,225	
	---	25,800	27,500	29,100	33,515	33,250	38,000	44,000	54,000	---	34,100	32,000	
	---	22,000	23,995	26,400	31,688	30,075	12,724	39,513	45,500	---	21,000	27,075	
	---	25,367	27,938	30,645	35,568	36,100	34,075	44,553	54,800	---	37,700	34,385	
	---	3,172	4,563	5,932	6,407	6,894	20,935	6,048	10,426	---	18,490	11,264	
	0	3	20	11	10	8	4	5	5	0	6	72	
Applied R&D	---	28,605	30,945	33,000	41,875	44,000	50,000	46,000	45,612	45,500	40,870	41,000	
	---	27,000	27,430	30,000	35,150	40,000	46,000	40,400	40,000	42,000	38,000	34,000	
	---	22,000	24,055	28,000	30,625	36,000	36,[illegible]	35,000	35,500	36,100	33,000	28,925	
	---	25,490	27,629	30,779	36,007	39,742	45,044	41,311	43,380	41,599	38,878	35,531	
	---	4,084	4,230	4,473	6,751	7,880	7,296	9,335	13,912	9,357	11,533	9,519	
	0	9	60	63	36	27	19	51	9	17	25	316	
Mgt Non-R&D	---	---	46,500	44,500	53,000	66,000	65,650	73,750	80,000	---	75,000	59,500	
	---	---	34,000	40,950	50,000	50,000	56,000	54,390	74,000	52,500	55,000	49,250	
	---	---	28,250	31,750	38,500	41,250	38,250	46,250	48,000	---	28,000	40,000	
	---	---	36,250	39,200	47,111	51,811	51,490	57,232	67,333	52,500	53,826	49,870	
	---	---	9,878	7,411	7,913	17,593	18,042	17,382	17,010	14,849	22,150	16,297	
	0	0	4	12	9	9	10	12	3	2	7	68	
Marketing	---	---	31,500	43,250	49,750	65,000	64,000	49,500	62,000	54,000	57,250	49,000	
	---	14,750	26,000	36,450	44,350	42,800	45,000	42,000	50,000	43,000	43,000	40,000	
	---	---	24,600	30,250	30,500	38,200	36,505	36,000	44,000	37,000	33,500	31,000	
	---	14,750	28,083	37,094	41,300	50,620	49,202	45,617	53,855	43,714	43,625	41,615	
	---	1,768	6,629	7,675	10,076	19,925	14,549	13,730	14,157	10,579	14,332	14,567	
	0	2	13	16	8	10	5	15	7	7	8	91	
Prod & QC	---	26,000	31,829	35,000	42,600	37,700	44,430	41,650	51,713	50,000	35,000	38,500	
	---	25,000	29,443	30,780	35,000	34,000	36,000	38,500	38,000	48,000	30,500	33,000	
	---	23,000	20,000	24,588	28,450	28,400	31,500	34,325	34,500	36,000	27,000	28,000	
	---	24,667	27,446	30,829	36,371	39,822	36,540	37,233	43,325	44,667	32,300	34,159	
	---	1,528	7,388	6,143	11,494	22,987	6,670	10,774	13,345	7,572	5,620	11,315	
	0	3	22	23	17	9	9	16	9	3	11	122	
Forsenic	---	---	32,760	32,875	43,000	---	---	49,000	---	---	---	42,500	
	---	---	30,600	27,100	37,475	37,500	18,750	46,000	37,500	51,400	29,900	35,500	
	---	---	25,600	21,625	34,697	---	---	40,000	---	---	---	27,650	
	---	---	29,653	27,370	39,290	37,500	18,750	48,143	37,500	51,400	29,900	35,923	
	---	---	3,673	5,691	8,218	10,607	---	14,005	10,607	---	---	11,991	
	0	0	3	10	6	2	1	7	2	1	1	33	
Writing/ Editing	---	---	---	---	---	---	---	---	---	---	---	50,000	
	---	---	---	36,000	---	---	---	49,000	35,000	---	---	41,500	
	---	---	---	---	---	---	---	---	---	---	---	35,250	
	---	---	---	36,000	---	---	---	49,000	35,000	---	---	42,250	
	---	---	---	---	---	---	---	2,828	---	---	---	7,974	
	0	0	0	1	0	0	0	2	1	0	0	4	
Data Proc	---	---	35,400	---	---	---	---	---	---	---	---	42,450	
	---	---	33,000	41,900	43,000	---	---	---	---	---	---	35,400	
	---	---	23,000	---	---	---	---	---	---	---	---	28,000	
	---	---	30,467	41,900	43,000	---	---	---	---	---	---	35,260	
	---	---	6,577	---	---	---	---	---	---	---	---	8,053	
	0	0	3	1	1	0	0	0	0	0	0	5	
Consulting	---	---	---	---	40,825	---	---	---	---	---	---	38,500	
	---	15,500	28,500	37,313	36,750	38,340	49,000	30,000	35,750	26,000	---	35,000	
	---	---	---	---	31,250	---	---	---	---	---	---	30,000	
	---	15,500	28,500	37,313	36,275	38,340	49,000	30,000	35,750	26,000	---	33,804	
	---	---	6,364	159	4,977	---	---	---	4,596	---	---	8,066	
	0	1	2	2	4	1	1	1	2	1	0	15	
Other	---	---	---	---	43,525	---	---	62,150	---	---	---	44,925	
	---	23,568	32,025	33,400	39,050	48,000	---	50,050	---	45,000	37,000	39,050	
	---	---	---	---	36,750	---	---	37,125	---	---	---	34,250	
	---	23,568	32,025	33,400	39,775	48,000	---	49,775	---	45,000	37,000	40,164	
	---	---	2,793	9,334	3,614	---	---	12,995	---	---	---	10,344	
	0	1	2	2	4	1	0	4	0	1	1	16	
No Response	---	---	30,825	38,500	---	42,000	62,000	57,250	---	52,000	53,400	47,100	
	---	---	26,400	35,000	40,000	40,500	45,000	54,900	---	48,000	44,000	40,500	
	---	---	19,875	26,725	---	35,000	44,000	42,750	---	42,000	35,000	33,000	
	---	---	25,700	32,413	40,000	41,229	50,333	51,300	---	47,333	44,160	40,873	
	---	---	5,715	7,839	---	8,838	10,116	7,878	---	5,033	11,094	11,365	
	0	0	4	8	1	7	3	6	0	3	5	37	
TOTAL	---	27,750	32,425	37,000	45,400	46,905	55,000	53,000	60,213	51,400	46,600	45,000	
	---	24,284	28,000	32,000	38,050	40,250	46,000	43,250	44,000	45,000	38,000	37,000	
	---	22,000	24,355	28,000	32,000	35,000	39,018	36,409	38,500	38,000	31,000	30,000	
	---	23,704	28,680	32,806	38,917	43,139	46,416	45,769	48,726	45,395	41,106	38,995	
	---	4,780	5,959	7,123	9,327	13,859	13,270	12,937	14,875	11,068	14,212	12,922	
	0	20	146	165	114	88	73	154	45	47	73	925	

TABLE-3.4.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1985 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	---	---	50,000	---	---	---	---	---	---	43,600	- 75th $-ile
	---	30,000	33,000	36,500	29,958	40,900	42,000	---	60,000	---	23,900	34,000	- 50th $-ile
	---	---	---	---	28,000	---	---	---	---	---	---	29,969	- 25th $-ile
	---	30,000	33,000	36,500	35,986	40,900	42,000	---	60,000	---	23,900	37,638	- Mean
	---	---	---	6,364	12,176	8,344	---	---	---	---	---	10,559	- Std Dev
	0	1	1	2	3	2	1	0	1	0	1	12	- Count
Basic Research	---	25,500	30,000	40,400	39,600	---	---	---	---	---	31,125	33,830	
	---	24,500	27,000	31,000	39,318	41,800	---	---	39,350	---	25,750	27,750	
	---	22,450	23,400	23,000	30,800	---	---	---	---	---	19,625	23,850	
	---	24,080	26,984	31,560	36,573	41,800	---	---	39,350	---	25,500	29,229	
	---	2,146	3,218	8,739	5,001	---	---	---	---	---	5,958	6,973	
	0	5	7	5	3	1	0	0	1	0	4	26	
Applied R&D	---	29,250	32,450	35,950	32,950	---	42,912	---	---	---	29,500	32,800	
	---	27,300	25,800	27,000	28,550	42,000	30,550	35,000	---	37,700	25,750	27,643	
	---	24,775	23,450	25,000	25,700	---	30,000	---	---	---	21,825	24,175	
	---	27,388	27,653	29,250	28,650	42,000	34,487	35,000	---	37,700	25,900	28,615	
	---	3,975	5,367	7,139	4,334	---	7,301	1,414	---	---	5,345	5,970	
	0	8	29	10	6	1	3	2	0	1	8	68	
Mgt Non-R&D	---	---	---	---	55,500	---	---	---	---	---	---	44,100	
	---	---	20,000	31,900	35,500	38,200	---	---	50,000	---	---	35,000	
	---	---	---	---	35,000	---	---	---	---	---	---	31,900	
	---	---	20,000	31,900	42,000	38,200	---	---	50,000	---	---	37,778	
	---	---	---	2,687	13,342	---	---	---	---	---	---	11,975	
	0	0	1	2	4	1	0	0	1	0	0	9	
Marketing	---	---	---	---	---	---	---	---	---	---	---	39,000	
	---	---	---	31,250	38,000	40,000	27,500	---	---	---	---	32,500	
	---	---	---	---	---	---	---	---	---	---	---	28,750	
	---	---	---	31,250	38,000	40,000	27,500	---	---	---	---	33,600	
	---	---	---	1,768	---	---	---	---	---	---	---	5,284	
	0	0	0	2	1	1	1	0	0	0	0	5	
Prod & QC	---	28,340	25,269	43,800	---	---	---	---	---	---	---	32,200	
	---	22,400	23,000	34,600	31,400	---	25,500	31,000	---	---	22,500	26,000	
	---	20,000	19,850	27,400	---	---	---	---	---	---	---	22,850	
	---	23,580	22,648	35,582	31,400	---	25,500	31,000	---	---	22,500	28,960	
	---	4,293	2,830	8,669	---	---	---	---	---	---	4,950	8,398	
	0	3	5	9	1	0	1	1	0	0	2	22	
Forsenic	---	---	---	---	---	---	---	---	---	---	---	25,250	
	---	---	23,160	18,000	23,250	---	---	---	29,000	---	24,000	23,580	
	---	---	---	---	---	---	---	---	---	---	---	21,375	
	---	---	23,160	18,000	23,250	---	---	---	29,000	---	24,000	23,443	
	---	---	---	---	1,061	---	---	---	---	---	---	3,524	
	0	0	1	1	2	0	0	0	1	0	1	6	
Writing/ Editing	---	---	---	---	---	---	---	---	35,928	---	---	42,000	
	---	---	22,000	---	---	45,000	31,680	40,500	30,200	34,000	---	35,928	
	---	---	---	---	---	---	---	---	20,000	---	---	22,000	
	---	---	22,000	---	---	45,000	31,680	40,500	28,709	34,000	---	33,226	
	---	---	---	---	---	---	14,595	707	8,068	11,314	---	9,536	
	0	0	1	0	0	1	2	2	3	2	0	11	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Consulting	---	---	---	---	---	---	---	---	---	---	---	32,750	
	---	23,000	22,000	---	---	22,000	---	36,000	---	---	---	22,500	
	---	---	---	---	---	---	---	---	---	---	---	22,000	
	---	23,000	22,000	---	---	22,000	---	36,000	---	---	---	25,750	
	---	---	---	---	---	---	---	---	---	---	---	6,850	
	0	1	1	0	0	1	0	1	0	0	0	4	
Other	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	28,000	---	---	---	---	28,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	28,000	---	---	---	---	28,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	1	0	0	0	0	1	
No Response	---	---	---	50,000	---	---	---	---	---	---	52,000	50,000	
	---	---	25,000	32,000	30,000	---	---	30,000	26,000	50,000	46,000	32,880	
	---	---	---	25,250	---	---	---	---	---	---	40,000	26,000	
	---	---	25,000	36,043	30,000	---	---	30,000	26,000	50,000	46,000	37,012	
	---	---	---	12,675	---	---	---	---	---	---	6,000	10,821	
	0	0	1	5	1	0	0	1	1	1	3	11	
TOTAL	---	28,455	30,000	40,050	37,000	44,250	42,000	40,000	47,338	48,000	32,000	35,100	
	---	25,000	25,000	31,500	31,400	40,900	30,000	36,000	33,064	39,850	26,000	29,000	
	---	22,850	23,000	25,438	28,000	35,800	26,500	31,000	26,750	28,925	23,000	24,440	
	---	25,736	26,579	32,234	33,499	38,850	32,202	35,429	36,310	38,925	28,426	30,553	
	---	3,768	5,138	8,192	9,219	7,747	8,039	4,158	13,208	10,011	9,205	8,397	
	0	18	47	34	21	8	9	7	8	4	19	175	

TABLE-3.4.7

SALARIES of PH.D. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

YEARS SINCE BS

WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	40,000	50,000	54,600	59,000	72,000	73,450	74,000	82,000	70,500	65,000	- 75th %-ile
	---	---	38,000	43,875	49,000	52,000	59,500	65,000	60,000	68,000	58,000	53,000	- 50th %-ile
	---	---	34,000	40,000	44,000	46,072	51,000	56,000	49,200	52,500	48,000	46,000	- 25th %-ile
	---	---	37,149	45,740	50,765	53,664	61,644	65,083	62,394	68,326	59,515	56,557	- Mean
	---	---	3,411	9,428	11,064	10,883	16,304	14,186	20,502	17,746	14,996	15,396	- Std Dev
	0	0	9	68	127	87	75	84	35	35	62	582	- Count
Basic Research	---	---	39,000	42,000	50,500	60,000	56,175	56,000	76,500	73,000	55,000	50,000	
	---	---	35,000	38,510	45,000	53,445	50,550	44,000	54,000	60,000	44,124	40,090	
	---	---	33,225	[illegible]	38,000	47,000	46,500	37,584	37,000	49,500	37,000	35,000	
	---	---	35,833	[illegible]	44,471	53,767	50,239	46,571	57,348	61,292	47,912	43,773	
	---	---	4,457	[illegible]	8,970	10,568	10,095	10,119	19,873	14,493	14,883	11,629	
	0	0	94	118	83	49	18	25	15	13	43	458	
Applied R&D	---	---	37,000	41,775	45,900	53,625	55,775	58,000	58,800	58,750	45,800	48,000	
	---	---	34,500	37,000	41,650	45,180	48,000	50,050	49,000	46,000	39,624	41,000	
	---	---	33,000	33,500	36,725	38,818	40,518	43,625	43,972	39,900	35,000	35,500	
	---	---	35,110	37,858	42,542	46,577	49,058	50,834	52,342	50,753	41,643	43,111	
	---	---	4,143	5,667	8,261	11,584	10,440	10,426	10,676	14,327	8,972	10,409	
	0	0	155	186	164	130	94	112	37	34	123	1,033	
Mgt Non-R&D	---	---	---	58,600	60,000	78,250	71,250	72,750	68,250	85,000	51,000	65,000	
	---	---	---	45,000	50,000	62,750	50,600	58,750	55,000	63,000	49,500	55,000	
	---	---	---	39,500	43,000	49,250	46,500	47,750	51,500	59,000	43,500	48,000	
	---	---	---	48,240	50,597	63,401	57,683	61,811	58,856	66,003	47,700	57,714	
	---	---	---	10,276	10,739	18,630	15,632	17,276	15,906	16,832	4,087	15,805	
	0	0	0	5	19	16	12	18	9	7	5	91	
Marketing	---	---	36,735	45,000	47,600	56,000	70,000	63,800	---	53,000	45,000	52,250	
	---	---	34,450	38,900	41,000	47,000	56,000	56,000	51,500	48,000	40,500	42,728	
	---	---	32,250	31,200	34,000	40,000	35,000	52,000	---	40,500	33,000	35,000	
	---	---	34,518	35,513	43,159	48,043	55,034	55,844	51,500	47,000	39,500	44,834	
	---	---	2,152	12,367	15,135	11,075	21,084	9,301	23,335	6,325	6,062	13,664	
	0	0	8	11	23	14	7	9	2	5	3	82	
Prod & QC	---	---	39,800	43,250	46,600	56,461	70,000	64,440	---	49,000	45,000	48,000	
	---	---	32,600	38,570	42,000	47,250	51,636	56,000	42,000	34,000	41,060	41,000	
	---	---	30,000	35,450	36,900	39,000	46,800	38,000	---	23,580	38,800	35,707	
	---	---	34,152	38,859	42,313	46,126	59,413	52,857	42,000	35,527	41,220	43,895	
	---	---	4,667	5,294	8,529	10,691	20,482	14,076	---	12,779	3,704	12,264	
	0	0	11	16	13	12	6	15	1	3	6	85	
Forensic	---	---	---	42,500	40,500	52,500	---	---	---	---	59,558	45,750	
	---	---	---	41,000	34,900	46,500	50,000	44,376	43,000	50,400	42,116	41,000	
	---	---	---	32,207	29,550	39,075	---	---	---	---	35,000	34,975	
	---	---	---	38,083	35,000	46,025	50,000	44,376	43,000	50,400	45,558	40,887	
	---	---	---	6,174	5,496	7,029	---	---	---	---	13,425	8,710	
	0	0	0	5	5	4	1	1	1	1	4	22	
Writing/ Editing	---	---	---	---	45,500	43,560	53,800	---	---	---	---	45,636	
	---	---	32,400	---	41,000	42,000	45,636	44,000	---	50,000	50,250	42,000	
	---	---	---	---	24,700	40,000	41,900	---	---	---	---	40,000	
	---	---	32,400	---	37,067	41,853	47,112	44,000	---	50,000	50,250	42,493	
	---	---	12,728	---	10,944	1,785	6,086	---	---	---	49,144	15,660	
	0	0	2	0	3	3	3	1	0	1	2	15	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Consulting	---	---	---	46,500	---	50,000	---	---	72,820	---	---	52,500	
	---	---	42,500	32,700	38,250	38,000	55,500	56,410	51,000	67,500	---	46,500	
	---	---	---	27,500	---	37,800	---	---	48,000	---	---	37,850	
	---	---	42,500	36,140	38,250	41,953	55,500	56,410	57,273	67,500	---	46,557	
	---	---	3,536	10,872	1,061	6,987	7,778	7,905	13,547	---	---	12,542	
	0	0	2	5	2	3	2	2	3	1	0	20	
Other	---	---	---	---	---	50,000	55,000	88,250	---	---	---	55,500	
	---	---	---	37,500	48,400	48,000	50,000	51,500	45,500	70,250	75,350	50,000	
	---	---	---	---	---	38,000	44,400	35,750	---	---	---	38,500	
	---	---	---	37,500	48,400	45,333	49,800	58,500	45,500	70,250	75,350	52,529	
	---	---	---	1,414	18,950	6,429	5,303	29,331	7,778	20,860	---	17,686	
	0	0	0	2	2	3	3	4	2	2	1	19	
No Response	---	---	38,150	47,475	48,500	77,250	66,500	62,500	67,750	65,750	63,500	61,125	
	---	---	34,500	40,129	43,500	50,500	56,100	50,500	56,500	59,000	48,900	48,700	
	---	---	30,900	34,625	36,000	42,500	52,000	43,500	50,825	44,250	39,000	40,194	
	---	---	34,520	39,733	47,622	58,542	59,354	55,917	61,275	57,100	50,608	52,033	
	---	---	3,840	8,244	15,798	19,319	11,240	17,106	17,527	17,829	16,846	16,673	
	0	0	5	14	15	12	13	12	8	10	13	102	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,941	14,376	14,012	
	0	0	284	430	438	333	234	283	113	112	282	2,509	

TABLE-5.4.8

SALARIES of PH.D. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -MEN Only
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	40,500	50,000	54,600	59,000	70,000	73,650	74,000	82,000	71,000	65,000	- 75th $-ile
	---	---	36,250	44,000	48,750	52,000	59,000	65,000	60,000	68,000	58,000	53,000	- 50th $-ile
	---	---	34,000	40,000	44,250	46,054	51,000	56,000	49,200	52,500	48,250	46,000	- 25th $-ile
	---	---	37,000	45,958	50,671	53,736	60,935	65,263	62,394	68,326	59,753	56,604	- Mean
	---	---	3,615	9,439	10,931	10,927	15,804	14,231	20,502	17,746	15,002	15,311	- Std Dev
	0	0	8	65	124	86	73	82	35	35	61	569	- Count
Basic Research	---	---	39,000	42,225	50,947	60,500	55,900	56,000	78,125	73,000	55,500	50,020	
	---	---	35,000	39,051	44,000	53,723	51,000	44,000	55,500	60,000	46,400	41,000	
	---	---	33,670	34,750	38,150	47,000	49,000	37,584	41,875	49,500	37,500	35,400	
	---	---	35,894	38,963	44,762	53,803	52,433	46,571	59,015	61,292	48,595	44,215	
	---	---	4,579	6,006	9,082	10,820	7,143	10,119	19,503	14,493	14,884	11,761	
	0	0	85	108	78	46	15	25	14	13	41	425	
Applied R&D	---	---	37,000	42,000	46,625	54,000	55,700	58,000	58,150	58,750	46,000	49,000	
	---	---	34,500	37,000	41,800	46,000	48,000	50,100	47,574	46,000	40,000	41,580	
	---	---	32,640	33,600	36,775	39,000	40,690	44,250	43,833	39,900	35,900	36,000	
	---	---	35,152	37,751	42,707	46,913	49,191	51,202	51,269	50,733	42,093	43,503	
	---	---	4,231	5,643	8,405	11,335	10,374	10,090	9,992	14,327	8,885	10,412	
	0	0	126	166	154	123	91	109	34	34	111	948	
Mgt Non-R&D	---	---	---	59,300	60,000	80,000	71,250	72,750	68,250	85,000	51,000	66,500	
	---	---	---	51,100	50,000	63,500	50,600	58,750	55,000	63,000	49,500	55,200	
	---	---	---	44,250	46,750	50,000	46,500	47,750	51,500	59,000	43,500	48,000	
	---	---	---	51,550	51,394	65,255	57,683	61,811	58,856	66,003	47,700	58,468	
	---	---	---	8,231	10,456	17,691	15,632	17,276	15,906	16,832	4,087	15,524	
	0	0	0	4	18	15	12	18	9	7	5	88	
Marketing	---	---	37,100	45,000	48,800	57,000	70,000	63,800	---	53,000	45,000	54,000	
	---	---	35,000	40,000	42,456	48,000	56,000	56,000	51,500	48,000	40,500	45,000	
	---	---	32,000	23,040	37,400	41,000	35,000	52,000	---	40,500	33,000	36,750	
	---	---	34,734	34,149	44,222	49,115	55,034	55,844	51,500	47,000	39,500	45,860	
	---	---	2,228	14,560	13,257	10,744	21,084	9,301	23,335	6,325	6,062	13,867	
	0	0	7	7	21	13	7	9	2	5	3	74	
Prod & QC	---	---	37,900	44,000	46,600	58,114	70,000	64,440	---	49,000	43,560	48,750	
	---	---	32,600	39,140	42,000	47,500	51,638	56,000	42,000	34,000	40,000	41,500	
	---	---	30,486	35,000	36,900	39,600	46,800	38,000	---	23,580	37,600	35,561	
	---	---	33,964	38,997	42,313	46,792	59,413	52,857	42,000	35,527	40,464	44,253	
	---	---	4,556	5,451	8,529	10,949	20,482	14,076	---	12,779	3,587	12,497	
	0	0	9	15	15	11	6	15	1	3	5	80	
Forsenic	---	---	---	42,750	40,500	52,500	---	---	---	---	---	48,000	
	---	---	---	39,207	34,900	46,500	30,000	44,376	43,000	50,400	56,116	42,000	
	---	---	---	30,104	29,550	39,075	---	---	---	---	---	34,900	
	---	---	---	37,354	35,000	46,025	30,000	44,376	43,000	50,400	56,116	41,501	
	---	---	---	6,876	5,496	7,029	---	---	---	---	9,735	9,180	
	0	0	0	4	5	4	1	1	1	1	2	19	
Writing/Editing	---	---	---	---	45,500	43,560	---	---	---	---	---	45,602	
	---	---	23,400	---	41,000	42,000	45,636	44,000	---	50,000	50,250	42,780	
	---	---	---	---	24,700	40,000	---	---	---	---	---	28,525	
	---	---	23,400	---	37,067	41,853	45,636	44,000	---	50,000	50,250	41,691	
	---	---	---	---	10,944	1,785	---	---	---	---	49,144	17,311	
	0	0	1	0	3	3	1	1	0	1	2	12	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Consulting	---	---	---	46,500	---	50,000	---	---	72,820	---	---	51,000	
	---	---	42,500	32,700	38,250	38,000	55,500	56,410	51,000	---	---	45,000	
	---	---	---	27,500	---	37,800	---	---	48,000	---	---	37,800	
	---	---	42,500	36,140	38,250	41,933	55,500	56,410	57,273	---	---	45,455	
	---	---	3,536	10,872	1,061	6,987	7,778	7,905	13,547	---	---	11,849	
	0	0	2	5	2	3	2	2	3	0	0	19	
Other	---	---	---	---	---	50,000	55,000	88,250	---	---	---	55,500	
	---	---	---	37,500	48,400	48,000	50,000	51,500	45,500	70,250	75,350	50,000	
	---	---	---	---	---	38,000	44,400	35,750	---	---	---	38,500	
	---	---	---	37,500	48,400	45,533	49,800	58,500	45,500	70,250	75,350	52,529	
	---	---	---	1,414	18,950	6,429	5,503	29,331	7,778	20,860	---	17,686	
	0	0	0	2	2	3	3	4	2	2	1	19	
No Response	---	---	38,150	47,825	52,625	77,250	69,000	61,000	61,000	66,500	63,500	61,000	
	---	---	34,500	40,500	42,650	50,500	58,050	49,000	53,000	61,000	48,900	49,000	
	---	---	30,900	36,140	35,600	42,500	54,000	43,000	50,600	42,500	39,000	40,000	
	---	---	34,520	40,333	47,595	58,542	52,010	55,273	60,029	58,333	50,608	52,222	
	---	---	3,840	8,629	16,394	19,519	10,598	17,788	18,545	18,453	16,846	17,077	
	0	0	5	12	14	12	10	11	7	9	13	93	
TOTAL	---	---	38,000	43,788	50,000	58,114	61,000	65,000	65,000	70,000	55,000	55,000	
	---	---	34,990	39,121	44,600	50,000	52,000	55,000	54,000	57,000	45,000	45,000	
	---	---	33,000	35,000	39,525	42,600	45,925	45,000	45,050	45,750	37,625	37,773	
	---	---	35,415	39,642	45,795	51,011	54,757	56,130	56,980	58,933	48,422	47,830	
	---	---	4,396	7,584	10,586	12,578	14,171	14,375	16,917	17,639	14,474	14,059	
	0	0	243	388	436	319	221	277	108	110	244	2,346	

TABLE-3.4.9

SALARIES of PH.D. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mgt-R&D	---	---	---	50,100	75,000	---	---	---	---	---	---	54,425	- 75th $-ile
	---	---	38,340	42,000	50,000	47,500	---	67,400	---	---	45,000	46,250	- 50th $-ile
	---	---	---	31,000	39,000	---	---	---	---	---	---	38,835	- 25th $-ile
	---	---	38,340	41,033	54,667	47,500	---	67,400	---	---	45,000	48,534	- Mean
	---	---	---	9,587	18,448	---	---	---	---	---	---	13,414	- Std Dev
	0	0	1	3	3	1	0	1	0	0	1	10	- Count
Basic Research	---	---	38,750	38,275	44,950	60,000	58,800	---	---	---	---	39,825	
	---	---	34,150	36,000	38,000	53,162	32,000	---	34,000	---	33,900	36,500	
	---	---	33,000	32,250	35,900	46,500	27,000	---	---	---	---	33,000	
	---	---	35,113	36,040	39,940	53,221	39,267	---	34,000	---	33,900	38,133	
	---	---	3,422	4,690	5,866	6,750	17,100	---	---	---	5,515	8,026	
	0	0	8	10	5	3	3	0	1	0	2	32	
Applied R&D	---	---	37,000	41,000	44,500	42,646	60,000	---	---	---	37,000	40,000	
	---	---	35,000	37,600	40,000	34,000	43,000	19,800	74,000	---	34,500	35,940	
	---	---	33,180	34,680	34,020	31,000	32,000	---	---	---	31,240	33,000	
	---	---	34,913	38,840	39,893	40,678	45,000	19,800	74,000	---	33,976	37,618	
	---	---	3,769	6,083	5,551	15,153	14,107	---	---	---	4,162	8,531	
	0	0	27	19	9	7	3	1	1	0	9	76	
Mgt Non-R&D	---	---	---	---	---	---	---	---	---	---	---	36,240	
	---	---	---	35,000	36,240	35,600	---	---	---	---	---	35,600	
	---	---	---	---	---	---	---	---	---	---	---	35,000	
	---	---	---	35,000	36,240	35,600	---	---	---	---	---	35,613	
	---	---	---	---	---	---	---	---	---	---	---	620	
	0	0	0	1	1	1	0	0	0	0	0	3	
Marketing	---	---	---	47,000	---	---	---	---	---	---	---	37,025	
	---	---	33,000	35,200	32,000	34,100	---	---	---	---	---	33,500	
	---	---	---	31,500	---	---	---	---	---	---	---	31,500	
	---	---	33,000	37,900	32,000	34,100	---	---	---	---	---	35,338	
	---	---	---	8,594	2,828	---	---	---	---	---	---	6,382	
	0	0	1	4	2	1	0	0	0	0	0	8	
Prod & QC	---	---	---	---	---	---	---	---	---	---	---	42,500	
	---	---	35,000	36,800	---	38,800	---	---	---	---	45,000	38,800	
	---	---	---	---	---	---	---	---	---	---	---	33,400	
	---	---	35,000	36,800	---	38,800	---	---	---	---	45,000	38,120	
	---	---	7,071	---	---	---	---	---	---	---	---	5,455	
	0	0	2	1	0	1	0	0	0	0	1	5	
Forsenic	---	---	---	---	---	---	---	---	---	---	---	41,000	
	---	---	---	41,000	---	---	---	---	---	---	35,000	35,000	
	---	---	---	---	---	---	---	---	---	---	---	35,000	
	---	---	---	41,000	---	---	---	---	---	---	35,000	37,000	
	---	---	---	---	---	---	---	---	---	---	0	3,464	
	0	0	0	1	0	0	0	0	0	0	2	3	
Writing/ Editing	---	---	---	---	---	---	---	---	---	---	---	53,800	
	---	---	41,400	---	---	---	47,850	---	---	---	---	41,900	
	---	---	---	---	---	---	---	---	---	---	---	41,400	
	---	---	41,400	---	---	---	47,850	---	---	---	---	45,700	
	---	---	---	---	---	---	8,415	---	---	---	---	7,019	
	0	0	1	0	0	0	2	0	0	0	0	3	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Consulting	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Other	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
No Response	---	---	---	---	---	---	---	---	---	---	---	54,750	
	---	---	---	36,129	48,000	---	61,500	---	---	46,000	---	46,000	
	---	---	---	---	---	---	---	---	---	---	---	36,129	
	---	---	---	36,129	48,000	---	61,500	---	---	46,000	---	45,552	
	---	---	---	5,839	---	---	---	---	---	---	---	10,865	
	0	0	0	2	1	0	1	0	0	1	0	5	
TOTAL	---	---	38,000	41,000	46,500	48,9[illegible]	59,400	---	---	---	38,000	41,000	
	---	---	35,000	37,200	39,000	40,400	43,000	43,600	54,000	46,000	35,000	36,800	
	---	---	33,000	33,000	35,420	33,600	32,000	---	---	---	31,680	33,090	
	---	---	35,157	38,003	41,475	42,886	45,556	43,600	54,000	46,000	35,572	38,763	
	---	---	3,779	5,936	9,692	12,377	13,407	33,658	28,284	---	5,182	8,995	
	0	0	40	41	21	14	9	2	2	1	15	145	

TABLE-3.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1985 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	24,075	24,125	---	---	---	---	---	---	---	---	32,000	- 75th $-ile
	31,000	22,000	23,150	34,600	29,000	44,400	40,000	43,000	46,800	60,000	---	24,000	- 50th $-ile
	---	16,630	19,375	---	---	---	---	---	---	---	---	21,150	- 25th $-ile
	31,000	20,815	23,850	34,600	29,000	44,400	40,000	43,000	46,800	60,000	---	27,312	- Mean
	---	3,855	7,270	7,920	5,657	---	---	---	---	---	---	10,741	- Std Dev
	1	13	10	2	2	1	1	1	1	1	0	33	- Count
Agricultural/ food chemistry	---	23,410	29,410	36,000	43,625	42,927	---	60,750	54,000	62,500	---	41,000	
	24,000	20,550	24,000	34,000	38,500	40,000	33,900	41,144	35,000	40,000	---	32,925	
	---	19,625	21,000	31,000	24,500	32,625	---	28,595	32,500	31,558	---	24,000	
	24,000	20,477	25,631	34,214	36,190	37,620	33,900	44,479	45,637	45,718	---	34,998	
	---	4,377	6,583	5,441	11,090	9,904	10,041	18,824	22,509	19,619	---	15,195	
	1	12	17	11	10	12	2	16	7	8	0	96	
Analytical chemistry	21,250	26,000	30,000	34,225	40,500	42,000	42,750	46,000	44,150	57,600	---	37,265	
	18,700	23,000	25,845	28,250	36,000	33,957	40,000	39,480	40,400	45,360	---	28,275	
	15,350	20,000	22,000	24,000	28,000	28,250	30,952	31,150	36,100	35,300	---	23,400	
	18,458	22,930	26,013	29,386	36,550	36,149	36,921	40,387	41,764	47,951	---	31,012	
	4,163	4,440	5,278	7,068	10,751	11,290	9,454	12,099	9,055	16,301	---	10,832	
	17	99	146	84	79	43	36	60	23	11	0	598	
Environmental chemistry	29,425	27,000	34,375	40,000	45,500	54,160	---	45,000	44,000	55,000	---	38,835	
	24,000	24,000	27,750	28,540	38,300	39,000	37,750	38,920	32,000	40,000	---	30,750	
	17,750	20,000	20,096	24,150	34,600	30,250	---	34,750	26,750	30,000	---	24,000	
	23,725	23,709	27,194	32,806	38,390	41,564	37,750	44,424	34,700	41,667	---	32,669	
	6,146	5,462	7,442	10,052	8,062	12,546	354	18,644	9,524	12,583	---	12,501	
	4	19	20	14	10	5	2	14	5	3	0	96	
Organic chemistry	24,279	25,140	31,349	35,598	45,000	54,500	60,000	47,000	57,000	57,000	---	46,750	
	22,150	21,850	27,963	30,500	36,000	44,878	52,000	38,000	45,000	47,300	---	35,000	
	18,000	19,285	25,000	28,530	31,000	33,825	39,000	33,000	33,843	40,000	---	26,000	
	21,236	22,620	29,944	32,153	41,012	45,649	50,931	41,555	48,109	48,941	---	37,836	
	3,717	4,979	9,228	6,931	13,547	16,446	12,564	14,081	22,802	12,251	---	15,571	
	6	30	28	26	15	26	15	39	14	17	0	216	
Inorganic chemistry	23,967	24,000	29,750	41,890	---	49,750	61,200	50,250	42,500	49,000	---	43,000	
	23,160	23,000	26,250	33,000	29,725	32,314	50,000	44,000	34,000	45,000	---	31,400	
	14,000	19,000	22,425	27,000	---	29,443	39,750	38,563	29,250	24,000	---	25,000	
	20,376	24,475	26,646	33,911	29,725	41,259	49,533	44,339	35,250	39,333	---	34,908	
	5,536	9,238	6,083	8,827	2,369	24,641	12,277	11,101	7,089	13,429	---	13,492	
	3	9	20	18	2	6	10	14	4	3	0	89	
Pharmaceutical/ medicinal/ clinical chemistry	21,300	24,000	28,755	33,985	35,000	38,000	49,200	52,225	56,816	---	---	33,179	
	17,500	21,800	25,350	30,000	31,000	33,000	38,257	42,000	40,000	44,000	---	27,300	
	15,250	18,000	20,395	26,800	25,000	31,000	27,125	32,800	36,000	---	---	21,775	
	17,733	20,897	25,168	31,643	35,564	34,371	38,539	42,821	44,272	44,000	---	29,299	
	3,975	4,097	5,643	7,644	15,218	4,155	11,341	12,968	11,046	12,728	---	11,086	
	9	31	34	24	11	11	8	13	3	2	0	146	
Physical chemistry	---	36,000	35,000	---	43,000	53,000	---	73,750	47,000	---	---	44,390	
	20,448	34,600	33,000	32,000	39,000	44,250	43,950	40,000	39,750	48,010	17,500	38,000	
	---	17,300	21,000	---	35,000	36,000	---	32,000	33,250	---	---	32,125	
	20,448	29,300	29,667	32,000	39,000	44,750	43,950	50,300	40,000	48,010	17,500	39,368	
	---	10,416	7,572	0	4,000	10,908	71	22,073	7,223	4,536	---	13,421	
	1	3	3	2	3	6	2	5	4	2	1	32	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27,600	---	---	---	---	---	---	---	27,600	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27,600	---	---	---	---	---	---	---	27,600	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	1	0	0	0	0	0	0	0	1	
Polymer/ macromolecular chemistry	27,500	25,900	31,625	36,000	45,334	45,500	53,500	60,000	52,000	48,000	---	43,645	
	20,100	23,000	27,000	33,200	37,800	40,000	44,500	47,000	40,560	43,000	---	34,000	
	16,900	20,000	24,750	29,700	34,000	35,800	39,330	39,200	35,220	30,000	---	26,000	
	21,445	22,999	27,734	33,250	38,629	40,735	47,483	50,644	44,934	40,438	---	36,500	
	5,082	4,122	4,623	6,669	8,976	10,212	14,677	16,449	16,847	9,684	---	14,598	
	11	49	50	34	21	25	29	51	15	15	0	300	
Other chemistry	25,500	25,850	30,600	36,681	44,800	51,150	51,800	47,000	42,000	52,000	---	40,000	
	21,200	24,000	28,000	29,500	35,119	40,500	45,000	39,000	36,000	40,000	---	32,000	
	18,600	19,500	23,000	26,175	25,250	33,475	38,000	35,000	31,750	33,500	---	25,000	
	22,157	23,124	27,236	33,661	35,413	41,445	45,259	40,320	39,695	44,111	---	34,342	
	5,538	5,023	5,454	15,740	12,337	11,283	11,983	10,686	13,739	18,128	---	13,285	
	7	37	39	32	14	22	21	35	19	9	0	235	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,952	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	
	60	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-3.5.2

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY -MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	24,000	29,125	---	---	---	---	---	---	---	---	40,200	- 75th %-ile
	31,000	20,500	22,650	34,600	29,000	44,400	40,000	43,000	46,800	60,000	---	24,500	- 50th %-ile
	---	15,260	18,625	---	---	---	---	---	---	---	---	20,500	- 25th %-ile
	31,000	19,836	24,717	34,600	29,000	44,400	40,000	43,000	46,800	60,000	---	29,546	- Mean
	---	4,039	9,454	7,920	5,657	---	---	---	---	---	---	12,116	- Std Dev
	1	7	6	2	2	1	1	1	1	1	0	23	- Count
Agricultural/ food chemistry	---	26,200	32,450	36,500	46,875	43,000	---	63,500	63,900	65,000	---	42,625	
	---	21,500	27,000	34,500	42,000	40,000	41,000	42,288	36,900	41,000	---	35,000	
	---	16,000	20,500	32,388	28,250	33,650	---	28,879	32,125	35,000	---	28,315	
	---	21,180	26,786	34,785	39,113	39,844	41,000	45,778	47,483	49,344	---	38,263	
	---	5,813	7,172	5,376	10,425	7,274	---	18,728	24,069	18,064	---	15,486	
	0	5	13	10	8	9	1	15	6	7	0	74	
Analytical chemistry	20,000	26,500	30,000	35,000	42,615	43,000	43,500	46,000	49,000	59,450	---	39,350	
	18,000	23,750	26,890	28,500	37,050	34,000	40,000	39,960	41,000	44,180	---	30,480	
	15,600	20,000	23,000	24,000	32,160	31,000	32,750	31,000	37,200	35,225	---	24,850	
	17,962	23,203	26,683	29,929	38,387	36,734	38,639	40,426	43,078	47,906	---	32,531	
	2,667	4,632	5,245	7,328	10,908	8,727	7,666	12,199	8,977	17,182	---	11,042	
	11	63	106	63	62	35	33	59	19	10	0	461	
Environmental chemistry	30,900	28,500	35,200	40,000	46,000	56,240	---	45,000	46,500	---	---	39,875	
	23,000	24,000	29,000	29,000	36,600	44,500	37,750	38,920	35,500	47,500	---	34,000	
	16,000	19,750	23,000	24,100	34,400	34,500	---	34,750	29,375	---	---	24,050	
	23,300	24,693	28,966	33,368	37,989	45,080	37,750	44,424	37,125	47,500	---	34,338	
	7,455	5,490	6,750	10,231	8,444	11,290	354	18,644	9,040	10,607	---	12,702	
	3	14	15	13	9	4	2	14	4	2	0	80	
Organic chemistry	24,000	24,480	32,627	35,732	44,250	55,000	60,000	47,750	59,000	58,500	---	49,425	
	22,800	21,700	28,500	31,000	36,750	45,200	52,000	38,000	47,500	48,650	---	37,000	
	21,500	18,825	25,000	29,000	34,313	33,650	39,000	33,000	37,050	40,050	---	29,183	
	22,767	22,171	31,544	32,383	41,036	45,855	50,931	41,438	50,700	50,375	---	39,723	
	1,250	5,071	9,870	6,972	12,105	16,751	12,564	14,251	23,707	11,083	---	15,628	
	3	17	21	25	12	25	15	38	12	16	0	184	
Inorganic chemistry	---	24,000	28,510	43,000	---	49,750	61,200	49,500	44,000	49,000	---	44,000	
	23,564	23,488	26,000	33,000	29,725	32,314	50,000	43,000	38,000	45,000	---	33,000	
	---	19,950	22,950	27,000	---	29,443	39,750	38,375	30,000	24,000	---	25,000	
	23,564	25,160	26,584	34,647	29,725	41,259	49,533	43,827	37,333	39,333	---	35,723	
	571	9,628	5,412	9,115	2,369	24,641	12,277	11,380	7,024	13,429	---	13,579	
	2	8	17	15	2	6	10	13	3	3	0	79	
Pharmaceutical/ medicinal/ clinical chemistry	21,650	23,500	30,000	37,000	53,250	35,300	50,600	57,500	---	---	---	37,150	
	21,000	20,625	26.350	30,000	31,500	33,000	42,800	46,900	38,000	44,000	---	30,000	
	13,150	18,250	22,289	28,000	28,650	32,000	29,000	41,063	---	---	---	22,910	
	18,120	20,677	26,535	32,531	38,275	34,069	40,373	48,897	38,000	44,000	---	31,587	
	5,061	4,539	4,954	8,070	17,044	3,054	10,893	9,182	2,828	12,728	---	11,870	
	5	17	18	19	8	7	7	9	2	2	0	94	
Physical chemistry	---	36,000	35,000	---	43,000	56,000	---	73,750	47,000	---	---	43,950	
	20,448	34,600	33,000	32,000	39,000	42,500	43,900	40,000	39,750	44,520	17,500	36,000	
	---	17,300	21,000	---	35,000	34,000	---	32,000	33,250	---	---	32,000	
	20,448	29,300	29,667	32,000	39,000	44,500	43,900	50,300	40,000	44,520	17,500	38,561	
	---	10,416	7,572	0	4,000	12,176	---	22,073	7,223	---	---	13,826	
	1	3	3	2	3	5	1	5	4	1	1	29	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27,600	---	---	---	---	---	---	---	27,600	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27,600	---	---	---	---	---	---	---	27,600	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	1	0	0	0	0	0	0	0	1	
Polymer/ macromolecular chemistry	24,820	26,300	32,750	36,000	45,750	44,050	54,000	60,000	52,750	48,500	---	44,500	
	19,850	22,000	27,500	33,240	37,900	40,000	44,500	44,500	40,280	42,500	---	35,220	
	18,525	19,850	25,000	29,100	35,625	35,400	39,660	39,100	34,415	30,000	---	27,000	
	21,193	22,077	28,327	33,292	40,284	39,724	48,316	50,119	44,858	40,041	---	38,013	
	4,066	4,174	4,580	6,875	8,700	9,063	14,610	16,406	17,480	9,922	---	14,586	
	6	28	41	32	16	24	27	49	14	14	0	251	
Other chemistry	22,875	25,000	32,000	37,677	45,600	51,300	53,200	47,000	42,000	52,000	---	42,000	
	20,800	24,000	28,620	30,000	36,419	41,000	45,000	39,000	36,000	40,000	---	33,450	
	17,700	19,625	23,460	27,325	27,987	34,150	37,000	35,000	31,750	33,500	---	25,525	
	20,450	22,770	28,429	35,013	37,249	41,871	45,284	40,308	41,025	44,111	---	35,759	
	3,510	4,829	5,227	16,378	12,397	11,379	12,610	10,834	14,878	18,128	---	13,745	
	6	24	27	28	12	21	19	31	15	9	0	192	
TOTAL	22,910	25,335	30,678	36,000	45,000	46,750	50,550	50,000	49,000	53,500	---	41,465	
	20,424	22,570	27,300	31,200	37,000	39,880	43,000	40,000	40,000	43,000	17,500	33,000	
	16,875	19,950	23,500	26,655	32,187	32,092	38,000	35,000	35,000	35,650	---	25,515	
	20,390	22,886	27,600	32,481	38,503	40,559	44,675	43,923	43,731	46,055	17,500	35,360	
	4,356	5,176	6,033	9,254	10,837	12,138	12,238	14,637	15,646	13,860	---	13,530	
	38	186	267	210	134	137	116	234	80	65	1	1,468	

TABLE-3.5.3

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY -WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	---	---	---	---	---	---	---	---	46,000	33,838	- 75th $-ile
	---	26,000	21,580	28,800	---	---	28,750	---	39,350	---	32,000	28,150	- 50th $-ile
	---	---	---	---	---	---	---	---	---	---	18,500	22,370	- 25th $-ile
	---	26,000	21,580	28,800	---	---	28,750	---	39,350	---	32,167	29,131	- Mean
	---	---	2,234	---	---	---	1,768	---	---	---	13,751	8,450	- Std Dev
	0	1	2	1	0	0	2	0	1	0	3	10	- Count
Agricultural/ food chemistry	---	---	25,000	---	---	---	---	---	---	---	---	30,500	
	---	21,600	21,000	---	33,000	---	---	---	---	---	---	23,300	
	---	---	19,000	---	---	---	---	---	---	---	---	20,500	
	---	21,600	21,667	---	33,000	---	---	---	---	---	---	25,433	
	---	---	3,055	---	7,071	---	---	---	---	---	---	6,934	
	0	1	3	0	2	0	0	0	0	0	0	6	
Analytical chemistry	---	26,250	29,750	39,050	---	---	42,000	36,000	---	---	39,750	33,400	
	---	24,600	25,200	32,440	27,700	40,100	30,550	31,000	29,000	---	24,000	29,000	
	---	21,800	23,040	27,750	---	---	28,000	30,000	---	---	21,000	24,375	
	---	24,433	26,392	33,057	27,700	40,100	33,517	32,333	29,000	---	29,100	29,731	
	---	3,322	4,473	7,744	5,233	2,687	7,457	3,215	---	---	13,155	7,480	
	0	6	12	12	2	2	3	3	1	0	5	46	
Environmental chemistry	---	---	---	---	35,000	---	---	---	---	---	---	35,250	
	---	---	21,000	29,120	35,000	31,000	---	36,000	---	---	---	29,120	
	---	---	---	---	22,500	---	---	---	---	---	---	22,000	
	---	---	21,000	29,120	30,833	31,000	---	36,000	---	---	---	29,074	
	---	---	1,414	6,619	7,217	12,728	---	---	---	---	---	7,506	
	0	0	2	2	3	2	0	1	0	0	0	10	
Organic chemistry	---	---	30,914	41,000	37,189	---	---	---	---	---	---	32,075	
	---	24,900	23,500	40,000	29,400	---	---	---	---	---	24,650	28,000	
	---	---	22,980	24,000	23,125	---	---	---	---	---	---	22,770	
	---	24,900	26,258	35,000	29,905	---	---	---	---	---	24,650	28,438	
	---	6,364	4,411	9,539	7,386	---	---	---	---	---	4,738	6,840	
	0	2	5	3	4	0	0	0	0	0	2	16	
Inorganic chemistry	---	---	---	---	---	---	---	---	---	---	---	36,200	
	---	24,500	22,250	32,400	---	---	---	---	---	---	40,000	24,500	
	---	---	---	---	---	---	---	---	---	---	---	22,250	
	---	24,500	22,250	32,400	---	---	---	---	---	---	40,000	28,280	
	---	---	2,475	---	---	---	---	---	---	---	---	7,866	
	0	1	2	1	0	0	0	0	0	0	1	5	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	28,343	41,500	36,500	---	---	---	---	---	27,875	35,550	
	---	---	26,000	27,750	30,000	46,800	25,500	40,000	40,100	39,850	24,950	28,500	
	---	---	22,700	25,063	28,529	---	---	---	---	---	19,475	25,125	
	---	---	25,676	31,094	32,012	46,800	25,500	40,000	40,100	39,850	24,100	30,560	
	---	---	3,095	11,040	4,793	---	---	---	14,001	3,041	4,480	8,687	
	0	0	9	8	5	1	1	1	2	2	4	33	
Physical chemistry	---	---	---	---	---	---	---	---	---	---	---	47,000	
	---	---	31,700	22,000	---	---	---	34,000	60,000	---	---	32,400	
	---	---	---	---	---	---	---	---	---	---	---	26,500	
	---	---	31,700	22,000	---	---	---	34,000	60,000	---	---	35,880	
	---	---	990	---	---	---	---	---	---	---	---	14,264	
	0	0	2	1	0	0	0	1	1	0	0	5	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	31,900	37,750	41,800	36,000	---	---	---	---	---	---	36,875	
	---	27,600	34,500	37,000	32,800	41,800	42,912	---	35,928	26,000	29,200	33,650	
	---	26,000	32,400	28,750	29,100	---	---	---	---	---	---	27,900	
	---	28,680	34,960	35,620	32,633	41,800	42,912	---	35,928	26,000	29,200	33,302	
	---	3,791	2,843	7,108	3,453	---	---	---	---	---	8,202	5,862	
	0	5	5	5	3	1	1	0	1	1	2	24	
Other chemistry	---	---	31,900	---	---	---	---	---	---	---	---	41,750	
	---	25,670	25,000	26,000	56,000	40,000	31,680	41,000	23,000	50,000	27,000	27,170	
	---	---	24,250	---	---	---	---	---	---	---	---	24,250	
	---	25,670	27,460	26,000	56,000	40,000	31,680	41,000	23,000	50,000	27,000	33,050	
	---	3,776	5,849	---	8,485	7,071	14,595	---	4,243	---	4,243	11,735	
	0	2	5	1	2	2	2	1	2	1	2	20	
TOTAL	---	28,455	30,000	40,050	37,000	44,250	42,000	40,000	47,338	48,000	32,000	35,100	
	---	25,000	25,000	31,500	31,400	40,900	30,000	36,000	33,064	39,850	26,000	29,000	
	---	22,850	23,000	25,438	28,000	35,800	26,500	31,000	26,750	28,925	23,000	24,440	
	---	25,736	26,579	32,234	33,499	38,850	32,202	35,429	36,310	38,925	28,426	30,553	
	---	3,766	5,138	8,192	9,219	7,747	8,035	4,158	13,208	10,011	9,205	8,397	
	0	18	47	34	21	8	9	7	8	4	19	175	

TABLE-3.5.4

SALARIES of M.S. CHEMISTS EMPLOYED FUL.-TIME in PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	27,000	35,445	---	---	42,000	45,000	---	---	40,500	38,175	- 75th %-ile
	---	25,900	23,580	29,790	40,000	---	30,000	44,000	39,350	---	32,000	30,000	- 50th %-ile
	---	---	19,625	26,925	---	---	27,500	9,600	---	---	24,250	24,900	- 25th %-ile
	---	25,900	23,610	30,720	40,000	---	33,167	32,867	39,350	---	32,300	30,212	- Mean
	---	141	4,148	4,570	---	---	7,751	20,156	---	---	9,884	9,175	- Std Dev
	0	2	6	4	1	0	3	3	1	0	5	25	- Count
Agricultural/ food chemistry	---	---	24,500	45,750	35,750	57,700	56,500	65,000	---	53,000	---	49,875	
	---	24,800	22,000	34,000	30,300	44,000	36,200	60,000	40,743	47,000	55,500	37,100	
	---	---	19,500	27,950	26,000	40,000	29,250	37,000	---	37,250	---	28,000	
	---	24,800	22,000	35,489	30,267	51,671	41,540	52,800	40,743	45,833	55,500	40,406	
	---	4,525	2,582	10,125	6,377	23,916	14,533	15,057	10,950	10,962	13,435	16,059	
	0	2	4	9	6	7	5	5	2	6	2	48	
Analytical chemistry	---	26,500	31,568	35,900	42,475	42,000	57,000	47,875	42,500	55,200	43,000	40,000	
	---	24,700	27,936	30,500	36,150	37,500	42,930	40,000	39,000	50,000	34,000	34,000	
	---	22,700	23,880	25,138	31,050	31,000	36,138	35,250	35,500	44,500	27,125	27,500	
	---	24,515	28,117	31,277	37,406	37,228	44,483	40,809	41,302	49,880	37,390	34,880	
	---	3,951	5,973	7,102	8,559	6,813	13,781	8,837	10,619	6,080	14,649	10,103	
	0	13	50	73	44	29	14	36	13	5	20	297	
Environmental chemistry	---	23,568	34,000	40,000	48,675	58,850	48,000	53,000	48,000	---	43,375	42,155	
	---	15,500	27,600	34,650	38,300	41,000	42,300	36,000	45,000	45,000	28,950	36,000	
	---	13,500	23,000	28,350	35,000	34,255	34,500	33,750	40,000	---	20,500	27,300	
	---	17,523	27,815	34,777	40,258	45,690	41,462	43,500	44,333	45,000	31,075	35,995	
	---	5,330	6,346	7,071	10,588	19,369	9,050	18,436	4,041	---	10,760	12,564	
	0	3	13	12	12	6	5	6	3	1	8	69	
Organic chemistry	---	25,700	32,500	37,000	47,000	47,000	58,500	53,500	65,125	56,250	41,000	48,000	
	---	22,000	27,000	30,750	33,000	39,600	50,000	45,250	46,500	44,000	36,300	38,000	
	---	19,700	23,000	29,000	30,400	33,000	44,850	38,375	33,705	37,150	28,000	30,000	
	---	22,560	27,484	32,605	37,301	40,120	49,037	48,793	39,790	47,620	35,190	40,086	
	---	4,023	4,573	6,279	10,186	8,995	14,332	14,860	18,051	11,606	10,324	14,114	
	0	5	19	20	13	11	17	30	8	10	11	144	
Inorganic chemistry	---	---	34,500	38,850	---	43,000	67,500	52,500	---	52,000	60,600	50,625	
	---	24,500	32,420	32,400	49,500	35,000	51,500	45,750	62,000	48,500	40,000	40,400	
	---	---	24,500	32,000	---	18,814	43,500	37,875	---	43,500	40,000	32,625	
	---	24,500	29,793	34,820	49,500	32,271	54,700	46,625	62,000	48,000	46,867	41,846	
	---	---	5,511	3,932	17,678	12,322	13,283	9,230	---	4,690	11,893	12,696	
	0	1	8	5	2	3	5	8	1	4	3	40	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	29,375	40,000	37,300	46,200	45,500	46,000	68,000	59,500	40,000	40,000	
	---	22,000	25,750	31,000	32,400	41,250	35,500	40,000	46,000	45,000	28,500	31,000	
	---	---	23,569	27,150	29,979	37,625	30,375	36,000	33,150	35,275	23,900	26,000	
	---	22,000	26,144	32,854	34,689	42,530	37,083	42,029	49,050	46,950	30,776	33,510	
	---	---	4,385	8,176	9,124	6,847	8,720	7,250	18,515	14,721	9,114	10,420	
	0	1	36	25	17	10	6	7	4	6	15	127	
Physical chemistry	---	---	31,616	39,000	52,500	---	---	52,000	60,000	---	---	42,500	
	---	---	31,000	28,000	47,000	45,200	30,000	43,000	50,000	28,000	36,000	36,213	
	---	---	28,000	22,000	36,000	---	---	34,000	41,200	---	---	30,000	
	---	---	30,174	29,667	44,800	45,200	30,000	42,681	50,400	28,000	36,000	38,619	
	---	---	2,117	8,622	10,010	8,061	---	9,768	9,406	---	---	10,395	
	0	0	7	3	5	2	1	7	3	1	1	30	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	28,830	35,000	40,000	41,850	56,250	49,000	54,500	63,750	44,250	51,250	44,000	
	---	28,300	30,890	34,300	35,500	42,200	42,000	44,500	44,500	39,500	36,750	37,360	
	---	26,500	25,650	30,000	30,000	38,500	38,000	38,500	35,982	31,325	34,388	31,000	
	---	28,323	30,669	35,450	36,093	47,430	42,778	46,296	49,565	37,648	42,096	39,119	
	---	2,824	6,449	7,650	8,115	15,497	10,326	11,656	17,191	7,454	14,852	12,060	
	0	9	30	30	26	14	13	34	10	10	14	190	
Other chemistry	---	28,340	33,375	36,625	51,000	57,000	60,000	55,000	68,750	55,000	57,250	51,390	
	---	25,000	28,225	30,000	45,000	43,500	50,000	43,500	46,500	42,000	46,500	40,000	
	---	23,000	25,000	27,500	40,000	35,750	36,500	36,000	28,250	37,250	30,000	30,000	
	---	25,447	30,315	31,450	45,954	48,121	48,089	47,644	48,625	45,056	46,047	42,288	
	---	2,698	6,971	6,079	7,520	15,968	16,632	14,900	21,869	13,347	17,491	15,195	
	0	3	20	18	13	14	13	27	8	9	16	141	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,500	35,500	35,500	
	---	22,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,168	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	

TABLE-3.5.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	29,000	37,000	---	---	---	45,000	---	---	---	40,000	- 75th %-ile
	---	25,800	25,000	30,780	40,000	---	42,000	44,000	---	---	32,500	30,000	- 50th %-ile
	---	---	19,875	26,300	---	---	---	9,600	---	---	---	25,800	- 25th %-ile
	---	25,800	24,625	31,360	40,000	---	42,000	32,867	---	---	32,500	30,932	- Mean
	---	---	4,785	5,374	---	---	---	20,156	---	---	3,536	9,850	- Std Dev
	0	1	4	3	1	0	1	3	0	0	2	15	- Count
Agricultural/ food chemistry	---	---	---	45,750	34,400	57,700	56,500	65,000	---	56,000	---	50,500	
	---	28,000	23,000	34,000	30,300	44,000	36,200	60,000	40,743	48,000	55,500	40,000	
	---	---	---	27,950	22,000	40,000	29,250	37,000	---	37,500	---	30,050	
	---	28,000	23,000	35,489	28,900	51,671	41,540	52,800	40,743	47,000	55,500	42,607	
	---	---	---	10,125	6,606	23,916	14,533	15,057	10,950	11,832	13,435	16,075	
	0	1	1	9	4	7	5	5	2	5	2	41	
Analytical chemistry	---	28,050	32,019	35,900	43,640	42,000	63,000	49,000	42,750	55,200	44,000	41,000	
	---	24,500	28,800	30,000	36,750	36,400	45,000	40,000	39,500	50,000	36,800	35,000	
	---	21,250	24,150	25,000	31,100	30,000	38,500	36,000	36,250	44,500	30,500	28,800	
	---	24,367	28,663	30,927	37,918	37,015	47,474	41,472	42,327	49,880	40,153	35,803	
	---	5,100	6,327	6,983	8,545	7,002	13,778	9,010	10,398	6,080	14,460	10,282	
	0	6	38	61	41	27	11	31	12	5	15	247	
Environmental chemistry	---	23,568	35,000	40,475	53,000	72,950	48,000	62,000	[illegible]	---	45,500	44,175	
	---	15,500	28,500	36,350	41,600	46,900	42,300	36,000	45,000	45,000	29,900	36,500	
	---	13,500	24,000	29,450	37,050	39,255	34,505	32,500	40,000	---	22,000	27,950	
	---	17,523	29,055	35,908	43,400	53,035	41,462	45,000	44,333	45,000	32,657	37,464	
	---	5,330	6,094	6,908	9,835	18,853	9,050	20,199	4,041	---	10,569	12,819	
	0	3	11	10	9	4	5	5	3	1	7	58	
Organic chemistry	---	22,000	33,150	36,000	52,500	47,000	58,500	53,500	65,125	56,250	45,500	50,000	
	---	22,000	27,250	30,000	38,500	39,600	50,000	45,250	46,500	44,000	37,493	39,536	
	---	19,000	22,875	29,000	31,900	33,000	44,850	38,375	33,705	37,150	34,200	32,000	
	---	21,000	27,922	32,182	40,589	40,120	49,037	48,793	49,790	47,620	38,598	41,641	
	---	1,732	4,710	5,846	9,781	8,995	14,332	14,860	18,051	11,606	9,929	14,138	
	0	3	14	17	9	11	17	30	8	10	8	127	
Inorganic chemistry	---	---	35,000	39,825	---	43,000	67,500	52,500	---	52,000	---	52,000	
	---	---	32,750	34,450	49,500	35,000	51,500	45,750	62,000	48,500	50,300	43,000	
	---	---	30,755	32,000	---	18,814	43,500	37,875	---	43,500	---	35,000	
	---	---	32,307	35,425	49,500	32,271	54,700	46,625	62,000	48,000	50,300	43,784	
	---	---	3,311	4,263	17,678	12,322	13,283	9,230	---	4,690	14,566	12,111	
	0	0	6	4	2	3	5	8	1	4	2	35	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	30,000	40,000	42,500	45,000	47,000	48,375	---	66,500	40,740	40,185	
	---	22,000	25,500	31,500	32,750	40,000	36,000	41,250	58,000	52,000	31,500	32,220	
	---	---	23,860	28,400	30,338	36,750	33,500	35,550	---	33,000	26,000	26,000	
	---	22,000	26,300	33,682	35,804	42,056	39,400	42,367	58,000	50,500	33,204	34,546	
	---	---	4,779	6,583	10,397	7,086	7,403	7,881	22,627	17,540	9,272	10,816	
	0	1	27	17	12	9	5	6	2	4	11	94	
Physical chemistry	---	---	31,308	---	54,250	---	---	53,150	---	---	---	48,435	
	---	---	30,700	33,500	46,000	45,200	30,000	44,870	45,600	28,000	36,000	37,713	
	---	---	27,250	---	32,500	---	---	34,819	---	---	---	30,000	
	---	---	29,563	33,500	44,250	45,200	30,000	44,128	45,600	28,000	36,000	38,841	
	---	---	2,202	7,778	11,471	8,061	---	9,844	6,223	---	---	9,805	
	0	0	5	2	4	2	1	6	2	1	1	24	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	28,733	34,700	40,000	44,450	57,500	49,500	54,500	68,500	44,500	55,000	45,500	
	---	28,325	28,900	33,600	38,000	42,600	42,000	44,500	45,000	41,000	38,100	38,500	
	---	26,575	25,450	30,000	31,000	37,000	37,000	38,500	37,500	34,050	35,000	32,000	
	---	27,878	29,811	35,416	37,111	47,863	42,767	46,296	51,080	38,942	45,495	40,133	
	---	1,277	6,656	7,893	8,671	16,041	10,785	11,656	17,511	6,607	14,853	12,546	
	0	4	25	25	21	13	12	34	9	9	11	163	
Other chemistry	---	---	33,500	37,250	48,000	59,000	60,000	55,750	72,500	55,500	59,750	53,390	
	---	25,000	30,000	30,500	43,000	44,500	52,000	45,250	59,500	42,000	49,890	41,100	
	---	---	25,800	28,443	40,000	37,000	47,800	36,000	38,000	36,625	31,500	31,000	
	---	25,000	31,267	31,771	44,127	49,475	51,073	47,899	57,167	44,438	48,768	43,815	
	---	---	7,231	6,107	6,067	16,817	15,717	15,134	17,770	14,131	16,965	15,198	
	0	1	15	17	11	12	11	26	6	8	14	121	
TOTAL	---	27,750	32,425	37,000	45,400	46,905	55,000	53,000	60,213	51,400	46,600	45,000	
	---	24,284	28,000	32,000	38,050	40,250	46,000	43,250	44,000	45,000	38,000	37,000	
	---	22,000	24,355	28,000	32,000	35,000	39,018	36,409	38,500	38,000	31,000	30,000	
	---	23,704	28,680	32,806	38,917	43,139	46,416	45,769	45,726	45,395	41,106	38,995	
	---	4,780	5,959	7,123	9,327	13,859	13,270	12,937	14,875	11,068	14,212	12,922	
	0	20	146	165	114	88	73	154	45	47	73	925	

TABLE-3.5.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY -WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	---	---	---	---	---	---	---	---	46,000	33,838	- 75th $-ile
	---	26,000	21,580	28,800	---	---	28,750	---	39,350	---	32,000	28,150	- 50th $-ile
	---	---	---	---	---	---	---	---	---	---	18,500	22,370	- 25th $-ile
	---	26,000	21,580	28,800	---	---	28,750	---	39,350	---	32,167	29,131	- Mean
	---	---	2,234	---	---	---	1,768	---	---	---	13,751	8,450	- Std Dev
	0	1	2	1	0	0	2	0	1	0	3	10	- Count
Agricultural/	---	---	25,000	---	---	---	---	---	---	---	---	30,500	
food chemistry	---	21,600	21,000	---	33,000	---	---	---	---	---	---	23,300	
	---	---	19,000	---	---	---	---	---	---	---	---	20,500	
	---	21,600	21,667	---	33,000	---	---	---	---	---	---	25,433	
	---	---	3,055	---	7,071	---	---	---	---	---	---	6,934	
	0	1	3	0	2	0	0	0	0	0	0	6	
Analytical	---	26,250	29,750	39,050	---	---	42,000	36,000	---	---	39,750	33,400	
chemistry	---	24,600	25,200	32,440	27,700	40,100	30,550	31,000	29,000	---	24,000	29,000	
	---	21,800	23,040	27,750	---	---	28,000	30,000	---	---	21,000	24,375	
	---	24,433	26,392	33,057	27,700	40,100	33,517	32,333	29,000	---	29,100	29,731	
	---	3,322	4,473	7,744	5,233	2,687	7,457	3,215	---	---	13,155	7,480	
	0	6	12	12	2	2	3	3	1	0	5	46	
Environmental	---	---	---	---	35,000	---	---	---	---	---	---	35,250	
chemistry	---	---	21,000	29,120	35,000	31,000	---	36,000	---	---	---	29,120	
	---	---	---	---	22,500	---	---	---	---	---	---	22,000	
	---	---	21,000	29,120	30,833	31,000	---	36,000	---	---	---	29,074	
	---	---	1,414	6,619	7,217	12,728	---	---	---	---	---	7,506	
	0	0	2	2	3	2	0	1	0	0	0	10	
Organic	---	---	30,914	41,000	37,189	---	---	---	---	---	---	32,075	
chemistry	---	24,900	23,500	40,000	29,400	---	---	---	---	---	24,650	28,000	
	---	---	22,980	24,000	23,125	---	---	---	---	---	---	22,770	
	---	24,900	26,258	35,000	29,905	---	---	---	---	---	24,650	28,438	
	---	6,364	4,411	9,539	7,386	---	---	---	---	---	4,738	6,840	
	0	2	5	3	4	0	0	0	0	0	2	16	
Inorganic	---	---	---	---	---	---	---	---	---	---	---	36,200	
chemistry	---	24,500	22,250	32,400	---	---	---	---	---	---	40,000	24,500	
	---	---	---	---	---	---	---	---	---	---	---	22,250	
	---	24,500	22,250	32,400	---	---	---	---	---	---	40,000	28,280	
	---	---	2,475	---	---	---	---	---	---	---	---	7,866	
	0	1	2	1	0	0	0	0	0	0	1	5	
Pharmaceutical/	---	---	28,343	41,500	36,500	---	---	---	---	---	27,875	35,550	
medicinal/	---	---	26,000	27,750	30,000	46,800	25,500	40,000	40,100	39,850	24,950	28,500	
clinical	---	---	22,700	25,063	28,529	---	---	---	---	---	19,475	25,125	
chemistry	---	---	25,676	31,094	32,012	46,800	25,500	40,000	40,100	39,850	24,100	30,560	
	---	---	3,095	11,040	4,793	---	---	---	14,001	3,041	4,480	8,687	
	0	0	9	8	5	1	1	1	2	2	4	33	
Physical	---	---	---	---	---	---	---	---	---	---	---	47,000	
chemistry	---	---	31,700	22,000	---	---	---	34,000	60,000	---	---	32,400	
	---	---	---	---	---	---	---	---	---	---	---	26,500	
	---	---	31,700	22,000	---	---	---	34,000	60,000	---	---	35,880	
	---	---	990	---	---	---	---	---	---	---	---	14,264	
	0	0	2	1	0	0	0	1	1	0	0	5	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	
chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/	---	31,900	37,750	41,800	36,000	---	---	---	---	---	---	36,875	
macromolecular	---	27,600	34,500	37,000	32,800	41,800	42,912	---	35,928	26,000	29,200	33,650	
chemistry	---	26,000	32,400	28,750	29,100	---	---	---	---	---	---	27,900	
	---	28,680	34,960	35,620	32,633	41,800	42,912	---	35,928	26,000	29,200	33,302	
	---	3,791	2,843	7,108	3,453	---	---	---	---	---	8,202	5,862	
	0	5	5	5	3	1	1	0	1	1	2	24	
Other	---	---	31,900	---	---	---	---	---	---	---	---	41,750	
chemistry	---	25,670	25,000	26,000	56,000	40,000	31,680	41,000	23,000	50,000	27,000	27,170	
	---	---	24,250	---	---	---	---	---	---	---	---	24,250	
	---	25,670	27,460	26,000	56,000	40,000	31,680	41,000	23,000	50,000	27,000	33,050	
	---	3,776	5,849	---	8,485	7,071	14,595	---	4,243	---	4,243	11,735	
	0	2	5	1	2	2	2	1	2	1	2	20	
TOTAL	---	28,455	30,000	40,050	37,000	44,250	42,000	40,000	47,338	48,000	32,000	35,100	
	---	25,000	25,000	31,500	31,400	40,900	30,000	36,000	33,064	39,850	26,000	29,000	
	---	22,850	23,000	25,438	28,000	35,800	26,500	31,000	26,750	28,925	23,000	24,440	
	---	25,736	26,579	32,234	33,499	38,850	32,202	35,429	36,310	38,925	28,426	30,553	
	---	3,766	5,138	8,192	9,219	7,747	8,035	4,158	13,208	10,011	9,205	8,397	
	0	18	47	34	21	8	9	7	8	4	19	175	

TABLE-3.5.7

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
198[illegible] Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	35,025	40,000	44,000	54,625	62,000	80,500	79,615	92,500	49,750	57,000	- 75th %-ile
	---	---	34,475	37,000	39,900	48,400	52,880	61,464	66,250	82,000	39,624	41,800	- 50th %-ile
	---	---	28,875	32,700	36,000	40,675	46,263	55,500	50,750	60,500	34,000	36,000	- 25th %-ile
	---	---	32,774	35,968	41,721	48,563	56,024	67,705	67,053	77,600	42,725	48,279	- Mean
	---	---	3,937	4,717	9,499	8,603	17,992	18,267	19,376	18,311	11,474	17,947	- Std Dev
	0	0	8	26	15	8	13	13	6	5	13	107	- Count
Agricultural/ food chemistry	---	---	35,200	42,000	45,900	54,290	58,250	60,250	93,000	87,750	45,075	52,000	
	---	---	33,000	35,400	40,950	48,000	54,000	52,000	58,000	77,250	42,200	42,300	
	---	---	31,700	33,500	36,013	40,000	50,000	48,250	50,000	49,550	35,750	35,000	
	---	---	33,075	37,063	42,263	47,732	52,722	57,025	67,000	70,817	40,188	46,22[illegible]	
	---	---	2,771	4,217	8,742	14,662	6,951	14,837	22,869	20,552	7,065	14,816	
	0	0	13	19	20	21	9	16	3	6	8	115	
Analytical chemistry	---	---	36,500	42,750	47,000	54,500	55,200	60,800	60,500	53,750	52,800	50,000	
	---	---	34,300	38,030	42,150	48,000	47,328	56,750	54,000	47,160	40,000	40,690	
	---	---	32,002	34,150	36,675	39,550	40,050	44,844	42,500	33,750	35,000	35,000	
	---	---	34,551	38,497	42,726	48,071	47,728	53,586	54,546	47,790	45,420	43,473	
	---	---	3,974	7,569	9,111	12,011	10,673	11,279	14,331	18,454	13,289	11,551	
	0	0	49	84	68	45	33	30	13	10	35	367	
Environmental chemistry	---	---	44,100	45,934	50,250	59,750	56,500	58,500	65,875	---	80,175	56,500	
	---	---	39,700	42,000	46,000	50,000	46,000	50,000	51,800	74,510	65,000	47,000	
	---	---	35,000	32,000	39,750	43,050	45,120	47,000	41,025	---	47,050	40,800	
	---	---	39,600	41,829	47,508	53,893	52,697	52,754	55,050	74,510	63,890	50,62[illegible]	
	---	---	4,702	10,600	14,117	15,598	13,741	9,716	17,776	14,835	18,609	15,039	
	0	0	4	15	17	14	9	7	8	2	5	81	
Organic chemistry	---	---	37,370	42,000	50,701	58,104	59,250	67,700	64,639	77,000	56,650	55,000	
	---	---	35,000	37,000	45,000	49,500	52,000	58,000	50,500	64,500	43,000	44,850	
	---	---	33,000	32,850	40,000	44,130	47,225	42,250	43,212	49,875	37,000	37,000	
	---	---	35,551	37,803	46,021	50,688	52,942	55,938	54,402	64,364	48,690	47,237	
	---	---	4,260	7,153	10,494	11,372	10,099	14,227	17,651	17,806	16,926	13,733	
	0	0	55	89	94	78	30	61	28	14	49	518	
Inorganic chemistry	---	---	37,965	46,175	49,500	58,000	55,075	82,750	---	69,394	50,000	50,000	
	---	---	35,000	39,650	42,600	52,000	46,000	60,200	40,000	61,000	42,000	41,400	
	---	---	33,300	36,000	38,750	44,500	37,125	47,625	---	50,500	33,000	36,000	
	---	---	35,910	41,677	43,737	52,800	47,600	62,650	40,000	60,158	41,856	44,132	
	---	---	3,699	7,523	7,910	9,626	12,504	18,441	---	9,545	9,835	10,906	
	0	0	26	32	29	15	6	6	1	5	15	135	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	38,250	44,000	50,000	60,000	70,000	59,076	78,500	80,000	61,250	56,685	
	---	---	34,250	40,000	45,000	52,000	60,000	54,000	68,000	59,000	49,450	[illegible]	
	---	---	28,575	35,000	38,000	39,960	50,000	45,200	45,600	50,000	39,238	38,000	
	---	---	33,938	40,091	45,708	50,982	59,204	52,873	64,062	61,400	52,790	48,763	
	---	---	5,154	6,511	11,407	12,863	15,094	13,074	21,024	17,739	15,411	14,762	
	0	0	22	47	52	35	23	23	9	15	38	264	
Physical chemistry	---	---	40,000	43,875	55,125	54,000	65,500	57,950	68,500	73,125	54,000	55,000	
	---	---	36,950	40,500	45,600	49,000	52,300	49,500	54,000	56,450	44,200	45,000	
	---	---	34,800	34,390	40,000	44,000	46,100	44,000	45,500	47,000	36,500	38,500	
	---	---	37,583	41,769	48,536	49,928	57,128	51,183	57,835	59,052	46,232	48,408	
	---	---	4,046	11,007	14,286	9,810	16,855	12,266	17,048	15,249	14,201	14,068	
	0	0	30	28	50	27	21	28	13	12	22	231	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	46,250	
	---	---	35,500	36,500	50,000	38,000	---	---	---	---	45,000	39,000	
	---	---	---	---	---	---	---	---	---	---	---	34,875	
	---	---	35,500	36,500	50,000	38,000	---	---	---	---	45,000	40,250	
	---	---	---	4,950	---	---	---	---	---	---	---	6,291	
	0	0	1	2	1	1	0	0	0	0	1	6	
Polymer/ macromolecular chemistry	---	---	38,000	44,880	52,000	64,250	64,250	65,775	63,640	60,500	52,250	56,000	
	---	---	35,000	41,020	45,000	50,000	54,500	56,500	55,000	51,000	45,000	46,000	
	---	---	32,640	37,000	40,700	42,500	45,848	45,000	46,262	40,000	37,500	39,300	
	---	---	35,271	41,808	47,068	53,553	56,007	57,589	55,598	51,355	46,378	49,123	
	---	---	3,171	6,394	9,811	14,717	15,324	15,423	12,743	11,835	10,709	13,638	
	0	0	51	68	84	60	54	78	25	29	54	503	
Other chemistry	---	---	39,250	45,000	50,000	59,500	80,250	64,390	70,000	76,000	63,225	55,000	
	---	---	35,000	39,750	47,290	47,500	63,250	51,500	51,000	56,000	44,260	45,100	
	---	---	33,000	34,800	41,375	40,000	43,500	45,120	45,200	40,750	39,375	37,950	
	---	---	36,312	40,394	46,142	49,485	62,856	54,291	59,566	59,679	50,923	49,238	
	---	---	6,137	6,332	6,396	13,681	21,284	13,858	21,747	20,645	17,220	15,786	
	0	0	25	20	28	29	[illegible]	21	7	14	22	182	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,541	14,376	14,012	
	0	0	284	430	438	333	234	283	113	112	262	2,509	

TABLE-3.5.8

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY -MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	34,500	39,685	44,250	54,625	62,000	80,500	79,615	92,500	50,000	59,500	- 75th %-ile
	---	---	32,225	36,500	39,925	48,400	52,880	61,464	66,250	82,000	45,000	44,000	- 50th %-ile
	---	---	28,050	32,100	35,418	40,675	46,263	55,500	50,750	60,500	35,000	36,250	- 25th %-ile
	---	---	31,442	35,661	41,851	48,563	56,024	67,705	67,053	77,600	45,329	49,726	- Mean
	---	---	3,492	5,021	9,844	8,603	17,992	18,267	19,376	18,314	10,408	18,344	- Std Dev
	0	0	6	20	14	8	13	13	6	5	11	96	- Count
Agricultural/	---	---	35,700	42,000	45,900	54,290	58,250	60,250	93,000	87,750	45,075	52,000	
food chemistry	---	---	33,000	35,400	40,950	48,000	54,000	52,000	58,000	77,250	42,200	43,000	
	---	---	31,700	33,500	36,013	40,000	50,000	48,250	50,000	49,550	35,750	35,750	
	---	---	33,756	37,063	42,263	47,732	52,722	57,025	67,000	70,817	40,188	46,756	
	---	---	2,525	4,217	8,742	14,662	6,951	14,837	22,869	20,552	7,065	14,803	
	0	0	9	19	20	21	9	16	3	6	8	111	
Analytical	---	---	36,600	43,650	47,000	55,375	56,400	60,800	60,500	53,750	58,500	50,511	
chemistry	---	---	34,500	38,800	43,000	48,000	48,000	56,750	54,000	47,160	42,120	42,000	
	---	---	32,002	34,650	38,000	43,000	40,100	44,844	42,500	33,750	36,000	35,875	
	---	---	34,761	38,803	43,197	49,035	48,549	53,586	54,546	47,790	46,716	44,337	
	---	---	4,190	8,025	9,134	11,852	10,283	11,279	14,331	18,454	13,599	11,773	
	0	0	41	69	63	42	31	30	13	10	31	330	
Environmental	---	---	45,000	46,417	50,333	59,750	56,500	58,500	55,000	---	80,175	57,250	
chemistry	---	---	38,000	43,000	44,500	50,000	46,000	50,000	50,600	74,510	65,000	47,500	
	---	---	34,000	38,500	39,375	43,850	45,120	47,000	40,000	---	47,050	41,250	
	---	---	39,000	43,495	47,352	53,893	52,697	52,754	52,986	74,510	63,890	51,020	
	---	---	5,568	10,410	14,565	15,598	13,741	9,716	18,135	14,835	18,609	14,997	
	0	0	3	13	16	14	9	7	7	2	5	76	
Organic	---	---	37,125	41,950	51,134	57,525	59,750	68,000	65,000	77,000	58,000	55,000	
chemistry	---	---	34,650	36,800	45,000	49,500	51,700	58,000	51,000	64,500	43,000	45,000	
	---	---	33,000	32,775	40,000	43,990	47,075	42,500	43,500	49,875	37,000	37,000	
	---	---	35,403	37,500	46,086	50,621	52,802	55,994	55,157	64,364	49,171	47,472	
	---	---	4,287	7,010	10,532	11,462	10,274	14,261	17,520	17,806	17,122	13,857	
	0	0	46	84	93	76	48	59	27	14	47	494	
Inorganic	---	---	39,000	46,150	49,750	58,000	55,075	82,750	---	69,394	50,000	50,000	
chemistry	---	---	35,820	40,000	42,930	52,000	46,000	60,200	40,000	61,000	42,000	42,000	
	---	---	33,885	36,000	39,625	44,500	37,125	47,625	---	50,500	33,000	36,000	
	---	---	36,243	41,747	44,048	52,800	47,600	62,650	40,000	60,158	41,656	44,594	
	---	---	3,920	7,623	7,873	9,626	12,504	18,441	---	9,545	9,835	11,006	
	0	0	22	29	28	15	6	6	1	5	15	127	
Pharmaceutical/	---	---	38,000	44,750	50,000	60,000	70,000	59,076	80,750	80,000	62,500	57,000	
medicinal/	---	---	33,500	40,363	45,000	52,000	60,000	54,000	71,000	59,000	50,000	45,600	
clinical	---	---	28,525	35,000	38,000	40,470	50,000	45,200	43,800	50,000	39,625	38,000	
chemistry	---	---	33,506	40,529	46,400	50,606	59,276	52,873	65,820	61,400	53,190	49,110	
	---	---	5,185	6,483	11,642	12,679	14,938	13,074	21,757	17,739	15,422	14,840	
	0	0	20	[illegible]	47	32	21	23	8	15	37	247	
Physical	---	---	40,000	44,500	55,000	54,000	66,250	57,950	62,250	73,125	54,000	55,000	
chemistry	---	---	35,928	40,000	45,450	49,571	55,150	49,500	51,000	56,450	44,200	46,000	
	---	---	34,600	34,460	40,000	47,000	47,125	44,000	45,250	47,000	37,350	38,500	
	---	---	37,432	42,222	48,058	50,920	58,384	51,185	56,488	59,052	47,105	48,683	
	---	---	4,150	11,412	14,049	9,392	16,253	12,266	17,068	15,249	14,427	14,018	
	0	0	28	25	48	25	20	28	12	12	20	218	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	45,000	
chemistry	---	---	35,500	36,500	50,000	38,000	---	---	---	---	---	38,000	
	---	---	---	---	---	---	---	---	---	---	---	34,250	
	---	---	35,500	36,500	50,000	38,000	---	---	---	---	---	39,300	
	---	---	---	4,950	---	---	---	---	---	---	---	6,535	
	0	0	1	2	1	1	0	0	0	0	0	5	
Polymer/	---	---	37,125	44,880	52,750	64,250	64,250	66,950	61,710	60,500	52,250	56,320	
macromolecular	---	---	34,500	41,250	45,600	50,000	54,500	57,200	55,000	51,000	45,000	46,000	
chemistry	---	---	32,480	37,013	40,700	42,500	45,848	45,000	46,131	40,000	37,500	39,600	
	---	---	35,079	41,854	47,399	53,553	55,488	58,240	54,998	51,355	46,458	49,295	
	---	---	3,239	6,443	9,917	14,717	14,443	15,123	12,651	11,835	10,739	13,532	
	0	0	46	64	80	60	50	74	24	29	50	477	
Other	---	---	39,600	45,000	50,109	61,750	83,000	64,390	70,000	76,000	69,075	56,600	
chemistry	---	---	[illegible]	40,500	47,290	49,000	68,500	51,500	51,000	56,000	45,160	46,000	
	---	---	[illegible]	34,400	42,125	40,500	46,500	45,120	45,200	40,250	40,125	39,250	
	---	---	37,052	40,520	46,413	51,394	65,157	54,291	59,566	60,167	52,766	50,219	
	---	---	[illegible]	6,479	6,313	13,473	21,063	13,858	21,747	21,929	16,980	15,874	
	0	0	21	19	26	25	14	21	7	12	20	165	
TOTAL	---	---	38,000	43,788	50,000	58,114	61,000	65,000	65,000	70,000	55,000	55,000	
	---	---	34,980	39,121	44,600	50,000	52,000	55,000	54,000	57,000	45,000	45,000	
	---	---	33,000	35,000	39,525	42,600	43,925	45,000	45,050	45,750	37,625	37,773	
	---	---	35,415	39,642	45,793	51,011	54,757	56,130	56,980	58,933	48,422	47,880	
	---	---	4,396	7,584	10,586	12,578	14,171	14,375	16,917	17,639	14,474	14,059	
	0	0	243	388	436	319	221	277	108	110	244	2,346	

TABLE-3.5.9

SALARIES of FULL-TIME EMPLOYED PH.D.CHEMISTS IN PRIVATE INDUSTRY -WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SPECIALTY	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Biochemistry	---	---	---	40,129	---	---	---	---	---	---	---	39,925	- 75th %-ile
	---	---	36,770	37,700	39,900	---	---	---	---	---	28,400	37,350	- 50th %-ile
	---	---	---	33,500	---	---	---	---	---	---	---	30,600	- 25th %-ile
	---	---	36,770	36,992	39,900	---	---	---	---	---	28,400	35,520	- Mean
	---	---	2,220	4,156	---	---	---	---	---	---	3,394	4,945	- Std Dev
	0	0	2	5	1	0	0	0	0	0	2	10	- Count
Agricultural/ food chemistry	---	---	33,135	---	---	---	---	---	---	---	---	33,135	
	---	---	33,000	---	---	---	---	---	---	---	---	33,000	
	---	---	28,500	---	---	---	---	---	---	---	---	28,500	
	---	---	31,545	---	---	---	---	---	---	---	---	31,545	
	---	---	3,031	---	---	---	---	---	---	---	---	3,031	
	0	0	4	0	0	0	0	0	0	0	0	4	
Analytical chemistry	---	---	35,750	40,000	43,500	35,600	---	---	---	---	35,875	37,400	
	---	---	33,500	36,800	34,000	34,100	35,000	---	---	---	35,250	35,000	
	---	---	30,750	33,000	31,500	34,000	---	---	---	---	35,000	33,000	
	---	---	33,475	37,091	36,800	34,567	35,000	---	---	---	35,375	35,766	
	---	---	2,525	4,923	7,050	896	11,314	---	---	---	479	4,693	
	0	0	8	15	5	3	2	0	0	0	4	37	
Environmental chemistry	---	---	---	---	---	---	---	---	---	---	---	47,850	
	---	---	41,400	31,000	50,000	---	---	---	---	---	---	36,700	
	---	---	---	---	---	---	---	---	---	---	---	30,500	
	---	---	41,400	31,000	50,000	---	---	---	---	---	---	38,350	
	---	---	---	1,414	---	---	---	---	---	---	---	9,221	
	0	0	1	2	1	0	0	0	0	0	0	4	
Organic chemistry	---	---	39,300	51,250	---	---	---	---	---	---	---	50,125	
	---	---	37,000	42,000	40,000	53,250	56,300	67,400	34,000	---	37,800	39,300	
	---	---	32,650	35,000	---	---	---	---	---	---	---	35,500	
	---	---	36,308	42,900	40,000	53,250	56,300	67,400	34,000	---	37,800	42,708	
	---	---	4,284	8,453	---	9,546	3,536	---	---	---	---	10,267	
	0	0	9	5	1	2	2	1	1	0	1	22	
Inorganic chemistry	---	---	35,000	50,000	---	---	---	---	---	---	---	37,260	
	---	---	34,150	38,000	35,040	---	---	---	---	---	---	35,000	
	---	---	33,075	35,000	---	---	---	---	---	---	---	33,725	
	---	---	34,075	41,000	35,040	---	---	---	---	---	---	36,793	
	---	---	1,075	7,937	---	---	---	---	---	---	---	5,544	
	0	0	4	3	1	0	0	0	0	0	0	8	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	---	35,000	44,500	73,000	---	---	---	---	---	43,925	
	---	---	40,000	35,000	38,000	53,162	41,900	---	---	---	38,000	38,400	
	---	---	---	31,000	34,500	38,800	---	---	---	---	---	35,000	
	---	---	40,000	33,667	39,200	54,987	41,900	---	---	---	38,000	41,562	
	---	---	---	2,309	6,458	17,173	---	---	---	---	---	10,877	
	0	0	1	3	5	3	1	0	0	0	1	14	
Physical chemistry	---	---	---	43,000	---	---	---	---	---	---	---	45,000	
	---	---	39,700	41,000	60,000	37,523	32,000	---	74,000	---	37,500	41,000	
	---	---	---	30,000	---	---	---	---	---	---	---	32,200	
	---	---	39,700	38,000	60,000	37,523	32,000	---	74,000	---	37,500	43,804	
	---	---	424	7,000	21,213	7,245	---	---	---	---	10,607	14,669	
	0	0	2	3	2	2	1	0	1	0	2	13	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	---	38,500	47,825	44,000	---	---	---	---	---	45,000	42,500	
	---	---	38,000	39,000	41,000	---	60,000	19,800	---	---	40,000	38,000	
	---	---	35,100	36,400	35,800	---	---	---	---	---	34,500	35,500	
	---	---	37,040	41,075	40,267	---	60,000	19,800	---	---	39,833	39,388	
	---	---	1,819	6,373	4,149	---	---	---	---	---	5,252	8,197	
	0	0	5	4	3	0	1	1	0	0	3	17	
Other chemistry	---	---	35,525	---	---	46,125	---	---	---	---	---	45,000	
	---	---	34,300	38,000	42,620	36,500	46,750	---	---	46,000	32,490	35,350	
	---	---	27,450	---	---	30,025	---	---	---	---	---	31,760	
	---	---	32,425	38,000	42,620	37,550	46,750	---	---	46,000	32,490	37,976	
	---	---	4,764	---	9,023	8,628	20,860	---	---	---	1,146	9,147	
	0	0	4	1	2	4	2	0	0	1	2	16	
TOTAL	---	---	38,000	41,000	46,500	48,916	59,400	---	---	---	38,000	41,000	
	---	---	35,000	37,200	39,000	40,400	43,000	43,600	54,000	46,000	35,000	36,800	
	---	---	33,000	33,000	35,420	33,600	32,000	---	---	---	31,680	33,090	
	---	---	35,157	38,003	41,475	42,886	45,556	43,600	54,000	46,000	35,572	38,763	
	---	---	3,779	5,936	9,692	12,377	13,407	35,658	28,284	---	5,182	8,995	
	0	0	40	41	21	14	9	2	2	1	15	145	

TABLE-3.6.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY EMPLOYERS and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
EMPLOYER	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mfg Chem	24,254	25,750	30,933	36,000	44,050	46,500	53,000	52,700	48,750	61,750	---	42,000	- 75th %-ile
	22,980	23,976	27,926	32,000	37,050	37,140	44,000	40,000	40,900	47,300	---	33,300	- 50th %-ile
	20,500	20,000	23,730	26,790	33,069	30,662	39,000	33,000	33,838	40,000	---	26,000	- 25th %-ile
	22,390	23,462	28,355	32,395	38,580	40,764	45,055	44,680	44,980	50,858	---	36,326	- Mean
	3,508	4,280	7,097	7,380	10,374	13,943	12,037	17,160	18,077	15,801	---	14,438	- Std Dev
	10	61	73	68	36	57	35	66	32	21	0	459	- Count
Mfg Coatings	21,735	23,760	30,975	33,360	37,950	51,600	53,350	47,000	81,100	53,000	---	40,500	
	19,400	20,384	26,000	31,500	37,000	39,000	45,000	38,000	47,500	49,200	---	30,000	
	16,800	18,500	22,700	29,000	27,500	25,000	38,500	33,000	33,700	42,250	---	23,320	
	19,254	20,938	27,100	31,843	33,481	39,523	46,049	41,030	53,450	48,567	---	33,520	
	3,273	4,144	5,544	5,549	6,284	14,761	8,206	14,538	28,630	6,652	---	14,350	
	10	23	36	16	9	15	13	[illegible]	8	6	0	161	
Mfg Food	---	24,550	30,400	40,500	42,750	42,000	41,000	66,000	50,200	46,400	---	40,000	
	21,500	20,050	22,000	32,850	27,000	37,850	26,800	39,250	35,650	36,500	---	27,000	
	---	18,375	20,758	23,500	24,200	27,775	25,000	28,784	31,375	23,833	---	22,000	
	21,500	20,729	24,806	32,587	33,276	34,330	30,933	45,384	39,075	37,255	---	31,924	
	---	4,541	6,758	10,524	10,500	10,209	8,764	19,886	10,508	15,676	---	13,538	
	1	10	23	13	9	8	3	14	4	6	0	91	
Mfg Metals/ minerals	---	33,000	28,000	37,000	39,550	42,220	45,000	44,750	42,000	---	---	40,000	
	12,000	22,602	24,250	28,080	28,600	38,615	42,000	38,875	37,200	43,000	---	31,000	
	---	18,250	19,250	22,500	22,405	31,000	37,500	34,250	36,000	---	---	23,125	
	12,000	26,034	24,180	29,109	30,185	41,801	40,257	38,593	38,400	43,000	---	32,410	
	2.828	11,524	5,376	7,904	9,042	21,050	8,044	7,541	3,175	---	---	11,921	
	2	6	20	9	4	8	7	20	3	1	0	80	
Mfg Paper	---	---	27,500	44,000	34,000	---	---	---	---	---	---	34,100	
	---	32,100	22,100	30,000	33,800	---	40,750	---	32,500	---	---	30,000	
	---	---	19,105	24,500	26,600	---	---	---	---	---	---	24,350	
	---	32,100	23,390	32,833	31,467	---	40,750	---	32,500	---	---	30,085	
	---	2,970	5,107	10,054	4,216	---	8,132	---	---	---	---	7,834	
	0	2	6	3	3	0	2	0	1	0	0	17	
Mfg Petroleum	32,400	26,025	34,000	40,640	46,850	52,000	57,500	52,170	50,000	56,950	---	45,520	
	23,700	24,120	29,160	33,500	41,000	48,000	50,000	40,000	44,150	49,180	---	35,420	
	23,000	21,576	25,000	29,175	36,500	31,680	42,000	36,210	35,124	37,000	---	27,000	
	26,367	24,040	29,625	37,293	41,297	44,330	49,800	45,423	44,621	49,970	---	37,713	
	5,237	4,457	4,834	12,268	7,237	9,255	8,672	13,200	9,822	17,399	---	13,048	
	3	22	15	12	14	7	5	17	11	8	0	114	
Mfg Pharm	21,675	24,000	28,200	35,950	39,975	42,000	50,000	49,926	50,000	49,000	---	35,900	
	20,724	21,800	25,000	30,000	33,375	35,300	36,900	44,500	40,000	40,000	---	27,100	
	15,700	18,500	21,000	26,000	26,500	31,000	27,750	38,000	36,000	34,000	---	22,000	
	19,879	21,345	25,386	32,647	33,936	36,364	37,813	44,637	41,888	41,200	---	29,977	
	5,640	4,038	5,516	12,738	12,229	6,942	12,152	10,360	8,888	8,075	---	11,473	
	12	67	71	45	32	19	13	24	7	5	0	295	
Mfg Rubber	---	27,500	33,000	35,750	54,500	43,500	78,000	51,000	38,600	47,750	---	45,000	
	15,000	23,888	26,000	34,420	45,000	40,000	49,400	42,500	30,000	46,500	---	36,000	
	---	22,000	23,000	31,634	35,250	37,992	42,100	36,210	26,416	38,500	---	30,000	
	15,000	24,629	27,473	35,569	44,900	40,597	55,929	44,158	31,672	44,250	---	38,675	
	---	2,827	4,989	6,099	10,383	3,434	19,471	9,928	6,262	5,560	---	13,103	
	1	6	11	8	5	5	7	17	3	4	0	67	
Mfg Other	27,750	26,350	30,900	34,825	40,000	46,000	44,250	53,250	40,000	49,755	---	39,500	
	24,750	23,000	28,000	28,800	36,000	39,500	40,000	41,603	36,000	40,000	17,500	31,000	
	17,400	20,000	24,000	24,000	28,559	33,800	31,730	35,700	33,000	30,500	---	25,000	
	23,125	23,073	27,716	29,383	36,712	38,970	40,204	46,116	37,732	39,931	17,500	33,295	
	5,939	4,649	5,383	6,611	12,251	8,970	12,002	14,557	6,333	10,873	---	11,933	
	8	67	80	56	47	31	33	54	19	16	1	412	
Non-Mfg	20,950	27,075	28,000	36,375	43,750	54,000	63,600	39,500	45,000	61,250	---	35,000	
	19,000	22,825	23,650	27,750	35,500	50,000	44,500	29,000	42,000	40,000	---	25,557	
	15,800	19,525	20,000	25,586	31,749	35,000	39,840	25,000	29,419	25,500	---	20,907	
	18,745	22,654	24,206	29,733	37,275	49,207	50,620	34,291	38,417	42,250	---	29,295	
	3,280	5,757	5,220	8,004	10,572	17,725	16,210	15,054	8,676	18,804	---	12,860	
	13	38	32	18	8	7	8	11	7	4	0	146	
TOTAL	23,610	25,000	30,000	35,895	42,000	46,000	50,000	50,000	46,800	53,000	---	40,000	
	20,424	22,475	26,280	30,750	36,000	39,000	42,820	40,000	40,000	43,000	17,500	30,912	
	16,350	20,000	22,300	26,000	29,700	31,460	36,975	34,625	33,450	35,000	---	24,000	
	20,388	22,695	26,651	31,767	37,013	40,014	43,614	43,724	42,483	45,293	17,500	33,555	
	4,915	4,858	6,016	8,932	10,947	12,615	12,754	14,639	15,023	13,944	---	13,249	
	80	302	367	248	167	157	126	248	95	71	1	1,842	

TABLE-3.6.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY EMPLOYERS and YEARS SINCE BS
1985 Survey of ACS Members

	YEARS SINCE BS												
EMPLOYER	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mfg Chem	---	27,600	32,550	38,875	50,000	50,000	58,750	54,000	59,500	50,000	46,750	48,000	- 75th %-ile
	---	25,000	27,180	32,125	38,000	41,925	49,500	46,000	45,000	45,000	35,250	39,720	- 50th %-ile
	---	23,000	23,120	27,675	32,000	37,500	42,000	39,000	35,964	42,000	30,500	30,250	- 25th %-ile
	---	25,282	28,329	33,511	39,673	43,735	49,034	48,471	48,156	44,938	39,980	40,396	- Mean
	---	2,305	6,372	6,884	9,467	12,092	10,701	15,506	15,910	9,869	13,792	13,581	- Std Dev
	0	11	42	50	31	27	32	59	17	16	20	305	- Count
Mfg Coatings	---	---	37,800	40,000	49,000	43,155	---	44,750	---	51,250	44,925	42,000	
	---	28,830	29,900	31,825	36,583	37,800	51,456	39,318	45,000	41,500	32,000	35,000	
	---	---	26,000	27,800	30,900	31,800	---	32,000	---	35,750	30,000	29,900	
	---	28,830	31,090	35,019	39,407	37,237	51,456	38,364	45,000	44,833	36,370	36,514	
	---	42	7,405	11,337	11,222	7,392	12,083	8,832	---	12,891	10,602	10,369	
	0	2	19	14	10	6	2	10	1	6	5	75	
Mfg Food	---	23,000	35,000	36,000	32,600	65,500	---	---	---	58,500	52,000	42,000	
	---	21,600	21,500	32,000	31,000	40,500	43,500	65,000	38,000	44,000	46,000	32,800	
	---	20,400	19,250	29,100	28,000	33,450	---	---	---	31,750	27,000	28,000	
	---	21,667	25,250	32,875	30,671	49,800	43,500	65,000	38,000	44,750	41,667	36,951	
	---	1,301	9,323	6,786	4,022	25,982	25,456	7,071	7,071	13,889	13,051	15,190	
	0	3	4	15	7	6	2	2	2	4	3	48	
Mfg Metc's/ minerals	---	---	34,650	36,630	41,800	---	---	43,870	---	---	---	41,508	
	---	25,000	28,886	34,500	36,875	---	47,005	39,000	40,000	52,000	58,000	36,000	
	---	---	27,336	24,700	31,250	---	---	32,500	---	---	---	29,165	
	---	25,000	30,572	31,605	36,544	---	47,005	39,148	40,000	52,000	58,000	36,337	
	---	---	3,914	7,059	5,789	---	7,064	6,943	---	---	---	8,719	
	0	1	5	8	8	0	2	5	1	1	1	32	
Mfg Paper	---	---	29,000	33,175	---	---	---	51,975	---	---	48,000	40,000	
	---	---	25,700	25,450	---	35,100	39,000	38,000	30,000	---	40,000	34,660	
	---	---	18,416	25,000	---	---	---	34,830	---	---	26,975	25,850	
	---	---	24,106	27,875	---	35,100	39,000	43,537	30,000	---	38,325	34,151	
	---	---	6,631	5,167	---	---	4,243	13,625	---	---	10,612	11,413	
	0	0	5	4	0	1	2	6	1	0	3	22	
Mfg Petroleum	---	30,750	35,300	39,600	---	60,000	62,931	55,900	72,500	45,535	72,625	53,800	
	---	28,200	32,750	32,940	54,500	50,900	58,500	51,500	49,250	40,000	65,300	42,000	
	---	26,175	30,175	24,941	---	42,000	47,145	44,750	38,375	28,750	53,985	32,500	
	---	28,375	33,500	31,889	54,500	50,967	56,192	53,300	53,167	38,095	63,970	44,614	
	---	2,384	3,877	7,611	10,607	9,000	8,694	12,100	18,747	8,948	9,783	15,018	
	0	4	8	8	2	3	4	8	6	4	4	51	
Mfg Pharm	---	26,588	29,750	33,750	39,389	46,900	45,500	55,500	50,000	53,000	40,000	38,625	
	---	23,900	25,800	30,250	33,065	42,500	35,500	44,000	40,000	42,000	31,500	31,500	
	---	19,750	23,690	27,075	30,725	34,750	27,000	36,000	30,200	36,600	24,000	26,000	
	---	23,525	26,677	31,149	35,307	41,715	35,047	44,221	40,425	44,989	33,334	33,498	
	---	3,737	4,591	6,342	7,557	7,582	13,167	10,429	13,280	12,615	12,733	10,372	
	0	6	53	48	30	13	14	19	7	9	27	226	
Mfg Rubber	---	---	35,000	37,000	---	---	---	54,500	55,250	---	---	52,750	
	---	26,000	22,000	27,846	36,300	57,000	32,000	49,500	41,000	44,500	57,750	40,000	
	---	---	21,000	21,300	---	---	---	39,000	36,500	---	---	33,000	
	---	26,000	26,000	28,715	36,300	57,000	32,000	47,090	44,250	44,500	57,750	42,236	
	---	---	7,810	7,886	---	32,527	---	9,554	10,404	707	6,010	13,900	
	0	1	3	3	1	2	1	10	4	2	2	29	
Mfg Other	---	30,005	32,375	40,850	47,050	43,500	56,250	44,000	65,000	51,050	42,125	43,125	
	---	24,750	29,225	32,200	39,254	37,500	47,000	40,000	42,000	40,750	35,500	36,000	
	---	23,276	25,000	28,972	32,550	30,500	41,750	35,000	37,000	34,325	29,500	30,000	
	---	26,468	28,846	34,179	38,767	38,357	47,797	40,797	50,455	44,000	37,833	37,730	
	---	4,632	4,755	7,399	9,714	8,641	13,960	9,064	17,626	13,141	13,034	11,357	
	0	6	40	34	32	28	18	39	11	8	18	234	
Non-Mfg	---	26,500	32,500	39,000	49,750	57,500	30,500	52,500	62,000	---	39,250	40,800	
	---	16,000	26,650	33,800	38,300	40,900	28,000	46,500	45,000	56,000	27,750	34,000	
	---	14,500	21,500	28,000	29,825	38,835	22,875	36,213	32,500	---	22,250	25,800	
	---	19,600	26,386	32,482	39,333	48,564	26,950	44,785	46,500	56,000	32,375	35,359	
	---	6,832	5,890	7,541	11,[illegible]	20,610	4,849	8,797	14,807	5,657	13,279	13,819	
	0	5	14	15	[illegible]	10	5	5	3	2	12	89	
TOTAL	---	28,000	32,020	37,000	44,700	46,465	52,500	52,000	56,500	50,000	46,000	44,000	
	---	25,000	27,600	32,000	36,750	40,250	44,850	43,000	42,000	43,900	35,500	35,500	
	---	27,000	24,000	27,800	31,200	35,000	36,150	36,000	36,000	37,775	28,000	28,800	
	---	24,698	28,166	32,709	38,015	42,781	44,856	45,294	46,852	44,794	38,109	37,618	
	---	4,340	5,827	7,298	9,420	13,481	13,524	12,783	15,194	10,949	14,207	12,660	
	0	39	193	199	139	96	82	163	53	52	95	1,111	

TABLE-3.6.3

SALARIES of PH.D. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY EMPLOYERS and YEARS SINCE BS
1983 Survey of ACS Members

YEARS SINCE BS

EMPLOYER	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Mfg Chem	---	---	37,350	43,075	49,700	56,435	60,000	65,000	70,000	77,000	50,000	54,000	- 75th %-ile
	---	---	35,000	39,051	44,000	49,250	52,150	55,000	58,000	64,510	41,000	45,000	- 50th %-ile
	---	---	33,090	35,000	40,000	44,000	46,050	45,000	49,000	46,240	36,200	37,308	- 25th %-ile
	---	---	35,360	39,786	45,434	51,138	53,357	55,905	61,246	63,236	44,508	47,575	- Mean
	---	---	3,163	6,897	9,674	11,793	13,180	13,719	17,499	17,574	11,854	13,640	- Std Dev
	0	0	113	148	162	124	92	122	47	34	93	935	- Count
Mfg Coatings	---	---	38,425	46,125	53,000	53,000	61,500	65,500	62,000	75,375	46,500	51,000	
	---	---	33,900	38,250	41,500	41,580	50,300	51,400	55,000	40,500	38,450	41,580	
	---	---	31,950	36,150	35,500	36,000	45,000	43,500	39,000	36,550	33,445	36,000	
	---	---	35,100	40,061	43,372	44,561	54,756	54,636	51,400	50,117	39,913	44,834	
	---	---	4,074	5,008	12,611	11,025	15,114	16,696	12,442	20,307	7,297	13,008	
	0	0	14	16	23	21	11	11	5	6	6	113	
Mfg Food	---	---	36,750	39,570	43,600	48,000	57,500	93,750	---	87,375	48,500	50,000	
	---	---	31,800	35,400	37,500	43,500	51,000	61,300	71,500	60,200	40,300	41,000	
	---	---	29,250	33,150	35,175	34,125	44,000	45,750	---	48,050	35,[illegible]00	34,000	
	---	---	32,822	36,488	40,428	45,723	51,333	65,575	71,500	64,717	41,490	46,126	
	---	---	4,481	4,947	8,631	17,705	8,359	25,431	30,406	20,217	9,251	17,624	
	0	0	9	13	9	16	6	8	2	6	10	79	
Mfg Metals/ minerals	---	---	38,625	41,625	55,500	52,300	38,700	55,525	---	63,000	33,500	50,820	
	---	---	35,650	34,800	50,000	49,500	35,500	52,910	65,250	61,000	33,000	40,500	
	---	---	33,575	32,500	39,790	41,725	33,500	37,830	---	23,580	31,680	34,600	
	---	---	35,950	36,900	49,314	48,283	35,900	48,755	65,250	49,193	32,727	44,354	
	---	---	2,691	5,342	10,824	6,431	2,764	10,396	15,910	22,204	940	11,679	
	0	0	4	8	13	6	4	4	2	3	3	47	
Mfg Paper	---	---	34,750	38,000	42,850	50,050	89,000	52,625	47,500	64,750	---	48,500	
	---	---	34,400	35,000	40,500	45,500	76,000	49,000	46,000	47,000	---	41,000	
	---	---	30,301	31,000	38,700	41,454	43,500	43,000	15,000	39,000	---	35,000	
	---	---	32,900	33,848	40,467	45,479	68,200	47,917	36,167	50,250	---	43,922	
	---	---	2,476	6,497	3,080	4,503	24,641	6,484	18,346	14,080	---	14,448	
	0	0	5	7	9	6	5	6	3	4	0	45	
Mfg Petroleum	---	---	41,475	46,950	60,613	66,500	75,000	72,000	70,625	66,541	66,500	61,400	
	---	---	37,760	41,500	53,500	58,500	64,000	63,000	65,375	56,500	57,250	51,000	
	---	---	35,000	37,490	46,750	51,000	53,200	57,500	54,000	50,250	42,525	40,000	
	---	---	38,794	42,908	54,579	58,325	64,350	63,857	63,375	60,174	57,346	52,569	
	---	---	5,043	7,305	15,144	10,727	16,330	12,209	8,780	13,759	18,206	15,061	
	0	0	32	48	30	25	17	23	6	8	24	213	
Mfg Pharm	---	---	37,750	41,825	50,000	60,000	60,000	65,000	73,000	76,000	59,800	55,400	
	---	---	34,000	37,000	45,000	53,500	51,200	57,000	52,250	60,000	46,400	45,000	
	---	---	32,500	34,363	38,670	39,600	48,000	47,300	42,500	51,000	38,500	37,000	
	---	---	33,765	38,103	45,909	53,149	54,366	56,880	58,316	62,526	50,668	47,957	
	---	---	4,643	6,333	10,494	14,479	12,878	15,615	18,280	17,529	16,099	1[illegible],710	
	0	0	39	84	93	55	49	42	16	19	57	454	
Mfg Rubber	---	---	---	44,440	50,000	56,640	46,500	56,000	63,000	---	51,500	52,000	
	---	---	---	43,750	47,600	45,000	42,475	45,000	56,000	43,000	49,000	45,000	
	---	---	---	38,575	39,300	42,500	38,488	40,000	49,291	---	45,000	41,000	
	---	---	---	42,255	45,129	48,047	42,488	49,857	56,097	43,000	48,500	47,211	
	---	---	---	3,541	7,628	7,546	4,213	12,185	7,237	4,243	3,416	8,192	
	0	0	0	4	7	3	4	7	4	2	4	35	
Mfg Other	---	---	36,000	43,000	49,825	57,300	60,250	61,000	58,600	65,000	55,000	52,000	
	---	---	35,000	40,000	42,378	48,000	54,000	52,000	46,852	50,000	45,400	43,350	
	---	---	32,000	34,000	38,000	40,280	42,000	44,000	43,500	40,000	39,718	36,288	
	---	---	34,947	38,811	43,321	49,263	55,724	53,166	50,744	54,766	49,288	46,049	
	---	---	4,596	7,602	8,292	12,529	16,141	13,812	14,600	17,634	14,118	13,343	
	0	0	58	75	84	61	35	55	23	23	56	470	
Non-Mfg	---	---	40,800	45,700	50,000	52,250	60,000	61,000	54,500	60,000	52,000	53,000	
	---	---	35,400	37,000	45,750	48,036	50,000	57,400	48,000	55,500	45,000	45,000	
	---	---	33,000	32,000	39,000	39,250	44,400	50,080	36,000	49,000	34,850	36,575	
	---	---	37,282	40,759	46,034	48,211	54,027	55,912	45,800	56,214	42,467	45,866	
	---	---	5,466	12,809	12,005	10,267	14,921	7,507	9,365	15,599	12,960	12,822	
	0	0	10	27	28	16	11	5	5	7	9	118	
TOTAL	---	---	38,000	43,500	50,000	58,050	61,000	65,000	67,375	70,000	55,000	54,250	
	---	---	35,000	38,900	44,000	49,800	52,000	55,000	54,000	57,000	44,062	44,700	
	---	---	33,000	35,000	39,000	42,036	45,609	45,000	45,100	46,000	37,000	37,000	
	---	---	35,383	39,480	45,585	50,669	54,599	55,968	57,092	58,894	47,681	47,402	
	---	---	4,302	7,444	10,566	12,657	14,508	14,444	16,854	17,541	14,376	14,012	
	0	0	284	430	458	333	234	283	113	112	262	2,509	

TABLE-4.1.0

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by TYPE OF INSTITUTION and ACADEMIC RANK
1983 Survey of ACS Members

	SCHOOL									
RANK	Private Doct.	Private Masters	Private Bachelors	Private Assoc.	Public Doct.	Public Masters	Public Bachelors	Public Assoc.	TOTAL	
Professor	54,000	40,500	32,650	---	51,000	36,540	36,500	35,750	46,700	- 75th %-ile
	45,000	35,000	27,300	28,500	43,500	33,000	32,000	30,000	38,000	- 50th %-ile
	36,747	30,050	23,021	---	36,046	31,000	29,750	26,575	31,300	- 25th %-ile
	46,622	35,737	28,449	28,500	44,545	34,599	32,879	30,543	40,002	- Mean
	12,927	6,413	7,074	6,364	11,202	6,139	4,624	4,699	12,064	- Std Dev
	154	27	120	2	363	84	65	24	839	- Count
Associate professor	37,750	32,000	26,000	---	36,000	30,000	29,559	30,000	33,000	
	32,000	26,500	23,000	23,850	32,000	27,750	26,000	24,800	29,000	
	27,875	21,350	20,100	---	28,000	25,000	24,200	22,500	25,000	
	33,815	28,257	23,106	23,850	32,587	27,836	26,954	26,912	29,636	
	8,901	7,033	3,970	1,909	6,187	4,176	4,755	5,102	7,278	
	73	7	71	2	137	38	43	15	386	
Assistant professor	31,150	24,275	20,950	---	29,150	23,000	22,600	21,588	26,800	
	26,125	20,000	18,972	23,750	24,000	20,050	20,250	19,000	22,665	
	23,000	19,000	17,450	---	21,185	19,980	19,000	17,375	20,000	
	27,678	21,228	19,180	23,750	25,192	21,629	21,124	19,601	23,997	
	6,414	3,157	2,507	11,667	5,036	3,470	3,432	2,430	5,666	
	76	9	49	2	130	27	26	8	327	
Instuctor or Lecturer	27,000	---	---	---	23,500	21,972	---	28,500	24,000	
	20,300	22,658	18,568	22,000	21,000	18,000	28,000	24,000	21,000	
	19,500	---	---	---	19,000	16,250	---	21,225	19,986	
	22,144	22,658	18,568	22,000	21,044	18,889	28,000	24,989	22,192	
	4,818	5,173	2,217	---	2,484	3,134	---	4,331	4,230	
	9	2	2	1	9	5	1	10	39	
Non-Faculty	33,000	---	---	---	31,750	---	---	---	32,775	
	25,000	---	---	---	25,500	15,000	---	---	25,000	
	19,000	---	---	---	21,025	---	---	---	20,375	
	26,911	---	---	---	28,619	15,000	---	---	27,893	
	7,290	---	---	---	11,428	---	---	---	10,440	
	15	0	0	0	38	1	0	0	54	
Unranked	50,100	---	---	---	35,500	---	---	30,750	32,000	
	23,000	26,400	31,250	---	26,000	---	---	27,500	26,000	
	16,000	---	---	---	20,000	---	---	22,000	22,000	
	29,700	26,400	31,250	---	27,589	---	---	26,650	27,571	
	18,010	---	10,253	---	9,401	---	---	5,612	8,549	
	3	1	2	0	17	0	0	14	37	
No Response	41,225	---	52,000	---	54,000	---	---	---	44,750	
	37,450	48,500	27,400	---	35,400	37,500	32,500	35,750	36,000	
	36,000	---	27,000	---	27,000	---	---	---	30,450	
	38,225	48,500	35,467	---	38,729	37,500	32,500	35,750	37,971	
	2,864	---	14,320	---	13,684	2,121	10,607	3,182	9,765	
	4	1	3	0	7	2	2	2	21	
TOTAL	45,000	36,540	28,950	32,000	45,000	34,629	32,400	31,500	40,000	
	35,000	30,650	23,500	24,000	35,000	30,000	29,000	26,800	31,000	
	27,675	24,700	20,500	22,000	28,000	25,000	24,929	22,750	25,000	
	37,715	31,361	25,102	24,886	36,995	30,143	28,747	27,233	33,492	
	13,542	8,661	6,899	6,048	12,496	7,565	6,367	5,813	11,949	
	334	47	247	7	701	157	137	73	1,703	

TABLE-4.2.0

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME In COLLEGE/UNIVERSITY
by ACADEMIC RANK and YEARS SINCE BS
1983 Survey of ACS Members

	RANK								
YEARS SINCE BS	Professor	Assoc. Prof.	Assist. Prof.	Instr./ Lecturer	Non-Faculty	Un-ranked	No Response	TOTAL	
5-9	---	---	27,050	20,401	26,075	---	---	26,500	- 75th %-ile
	---	32,000	21,750	18,500	23,336	15,500	35,400	21,400	- 50th %-ile
	---	---	20,000	17,625	17,250	---	---	19,184	- 25th %-ile
	---	32,000	23,036	18,842	22,162	15,500	35,400	22,956	- Mean
	---	18,385	4,910	1,488	5,497	707	---	5,629	- Std Dev
	0	2	70	4	6	2	1	85	- Count
10-14	51,033	31,500	27,000	23,750	23,920	28,000	52,000	28,000	
	36,025	27,400	23,076	21,650	18,800	24,000	34,200	24,000	
	20,875	22,000	20,038	20,176	16,750	17,900	27,000	20,500	
	35,978	27,751	24,295	21,895	20,071	23,367	37,733	25,216	
	17,025	8,859	5,290	2,481	3,713	5,946	12,869	7,164	
	4	56	130	12	9	9	3	223	
15-19	41,700	33,750	26,000	26,000	33,250	41,250	53,225	34,830	
	34,860	27,250	22,000	22,000	28,000	25,500	37,450	27,500	
	30,000	24,000	19,845	19,500	22,202	21,750	29,550	22,900	
	36,717	28,704	23,894	22,600	28,200	29,400	40,075	29,496	
	10,804	6,827	6,209	3,578	7,319	10,358	12,909	9,141	
	65	128	64	5	13	6	4	285	
20-24	42,000	32,563	30,800	28,000	36,000	39,250	---	39,000	
	35,000	28,975	24,000	26,316	25,000	31,000	44,750	31,700	
	29,938	26,000	19,938	23,075	20,000	24,000	---	26,750	
	36,302	30,133	26,178	25,856	29,769	31,258	44,750	33,505	
	9,684	7,273	8,276	4,869	13,034	7,695	3,889	9,697	
	194	90	18	7	15	9	2	335	
25-29	48,000	32,150	26,050	23,250	45,000	---	43,750	44,000	
	39,700	30,230	22,000	20,700	33,000	23,000	38,000	35,000	
	32,850	29,338	19,320	16,350	28,950	---	29,250	30,000	
	40,973	30,746	22,899	20,100	35,650	23,000	36,800	37,828	
	11,324	4,249	5,018	3,747	8,347	---	8,563	11,481	
	164	38	10	4	3	1	5	225	
30-34	45,000	36,239	25,500	---	48,100	---	---	44,000	
	36,540	30,000	24,000	---	31,500	23,500	40,000	35,000	
	31,250	27,050	17,000	---	26,300	---	---	30,000	
	38,439	32,539	21,800	---	36,060	23,500	40,000	37,213	
	11,039	7,541	4,658	---	15,663	4,950	---	11,085	
	183	25	5	0	5	2	1	221	
35-39	50,000	39,500	---	---	---	---	---	49,750	
	40,000	31,000	23,211	---	---	40,050	54,000	39,000	
	33,000	27,113	---	---	---	---	---	31,000	
	42,069	33,456	23,211	---	---	40,050	54,000	40,544	
	11,672	7,311	1,713	---	---	14,213	---	11,674	
	75	13	2	0	0	2	1	93	
>=40	59,438	44,750	---	---	---	---	---	57,000	
	45,000	42,000	22,500	---	---	29,000	---	44,300	
	36,680	30,700	---	---	---	---	---	35,500	
	47,621	38,580	22,500	---	---	29,000	---	46,612	
	14,722	7,388	3,536	---	---	---	---	14,843	
	105	5	2	0	0	1	0	113	
No Response	54,825	31,500	30,000	30,000	33,200	34,000	36,000	40,000	
	40,000	27,700	22,500	20,000	33,000	29,000	31,500	30,000	
	31,554	23,560	20,000	17,000	26,000	22,500	23,250	23,000	
	42,434	28,472	24,851	21,855	30,733	28,400	30,250	33,002	
	13,770	5,945	6,471	5,929	4,100	6,066	6,946	12,603	
	49	29	26	7	3	5	4	123	
TOTAL	46,700	33,000	26,800	24,000	32,775	32,000	44,750	40,000	
	38,000	29,000	22,665	21,000	25,000	26,000	36,000	31,000	
	31,300	25,000	20,000	19,986	20,375	22,000	30,450	25,000	
	40,002	29,636	23,997	22,192	27,893	27,571	37,971	33,492	
	12,064	7,278	5,666	4,230	10,440	8,549	9,765	11,949	
	839	386	327	39	54	37	21	1,703	

TABLE-4.3.0

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SPECIALTY and YEARS SINCE BS
1983 Survey of ACS Members

SPECIALTY

YEARS SINCE BS	Biochem	Agri./ Food	Analytical	Environmental	Organic	Inorganic	Pharm./ med/clin	Physical	Theoretical	Polymer/ macro.	Other Chem.	TOTAL	
5-9	27,275	---	27,875	---	25,025	24,000	30,772	24,000	---	29,000	---	26,500	- 75th $-ile
	20,934	25,500	21,600	24,100	21,600	20,000	27,500	20,200	20,850	24,500	---	21,400	- 50th $-ile
	19,500	---	20,500	---	18,500	17,768	21,900	17,125	---	18,500	---	19,184	- 25th $-ile
	23,919	25,500	23,821	24,100	22,200	21,389	26,569	21,027	20,850	24,000	---	22,956	- Mean
	7,428	707	5,133	6,505	5,869	5,717	4,595	4,777	1,202	5,268	---	5,629	- Std Dev
	14	2	18	2	14	15	5	10	2	3	0	85	- Count
10-14	30,000	32,986	25,000	31,250	26,250	28,000	38,900	32,250	32,500	31,700	23,500	28,300	
	25,000	30,000	22,471	25,340	22,500	23,750	31,100	22,350	27,266	22,000	22,000	24,000	
	20,000	26,650	20,000	23,965	19,800	21,000	24,675	19,431	21,950	21,000	21,000	20,500	
	25,834	30,158	23,191	27,339	22,969	24,495	32,575	25,518	28,649	24,900	22,200	25,216	
	9,247	3,576	5,297	5,107	4,691	5,577	9,390	8,402	8,930	5,910	1,483	7,164	
	43	6	31	14	53	24	12	22	10	3	5	223	
15-19	35,750	42,575	31,250	39,500	31,000	34,750	37,050	33,000	27,656	35,625	36,206	34,830	
	30,000	35,500	26,000	34,000	25,700	27,100	35,000	27,400	23,000	28,500	23,500	27,500	
	23,500	25,875	21,073	27,650	22,200	22,950	26,435	23,750	19,450	19,250	20,675	22,900	
	30,329	34,650	27,097	33,564	28,342	30,405	34,563	29,593	23,365	28,063	27,851	29,496	
	8,341	8,710	7,522	6,917	10,179	10,333	10,429	8,478	4,300	8,571	8,480	9,141	
	53	4	37	13	65	37	17	33	8	8	10	285	
20-24	40,250	55,000	32,616	59,109	37,000	36,000	48,500	36,500	42,500	47,000	42,500	39,000	
	34,500	46,500	28,000	35,000	31,000	30,000	43,556	30,000	36,000	42,000	33,600	31,700	
	26,075	36,500	25,500	32,125	27,000	25,000	38,214	26,850	31,606	30,000	29,250	26,750	
	35,243	46,000	29,174	42,078	32,955	31,879	42,577	31,580	37,404	38,071	35,025	33,505	
	11,071	9,695	7,760	16,346	8,898	8,679	9,567	8,192	7,061	11,469	8,688	9,697	
	66	4	35	4	77	55	14	58	6	7	9	335	
25-29	52,182	50,750	44,750	51,225	40,000	40,521	52,000	42,250	33,400	57,250	60,000	44,000	
	42,000	39,500	35,770	38,500	34,900	32,400	41,450	35,000	30,000	40,700	38,000	35,000	
	32,000	31,000	30,000	30,750	28,500	28,963	32,600	30,930	29,900	33,551	31,884	30,000	
	42,302	41,056	36,809	42,238	34,559	35,168	41,471	36,856	31,320	44,534	42,055	37,828	
	13,328	11,697	10,642	16,137	9,400	13,333	9,845	8,584	2,212	13,061	16,696	11,481	
	41	9	20	8	60	20	7	42	5	6	7	225	
30-34	48,218	50,000	34,500	53,600	44,500	40,157	65,000	40,319	49,250	49,000	63,500	44,000	
	39,250	43,000	31,000	35,000	33,508	34,000	45,000	35,000	31,000	45,000	26,800	35,000	
	31,485	25,000	24,750	29,700	29,190	26,100	30,000	32,000	28,500	37,147	23,000	30,000	
	40,017	40,043	31,026	39,400	36,669	34,291	48,720	36,204	36,250	43,549	37,767	37,213	
	12,002	12,512	9,552	12,275	10,251	8,623	22,192	6,629	12,606	9,801	22,367	11,085	
	42	7	26	7	56	19	7	41	4	9	3	221	
35-39	53,000	49,250	50,750	---	51,130	35,500	50,500	49,400	---	43,500	54,000	49,750	
	47,000	43,750	33,250	37,000	36,770	31,000	43,150	38,000	26,000	39,000	49,500	39,000	
	40,000	36,106	22,288	---	30,000	30,000	35,375	31,200	---	27,000	30,700	31,000	
	45,658	42,487	35,647	37,000	39,873	32,447	42,967	41,390	26,000	36,500	44,733	40,544	
	10,269	10,439	13,608	---	13,430	3,738	7,794	13,411	---	8,529	12,360	11,674	
	19	6	6	1	24	9	6	15	1	3	3	93	
>=40	63,000	---	55,250	---	46,546	60,000	73,000	57,500	60,500	46,500	45,675	57,000	
	50,600	34,677	34,400	52,000	40,000	41,000	50,000	43,500	60,000	45,000	40,775	44,300	
	39,180	---	27,675	---	32,000	33,000	45,000	40,125	38,800	31,500	32,800	35,500	
	52,995	34,677	39,200	52,000	41,223	46,857	56,000	48,219	53,100	40,200	41,206	46,612	
	17,182	4,699	14,008	---	11,363	17,639	14,933	14,702	12,387	8,408	11,894	14,843	
	29	2	6	1	25	7	3	24	3	5	8	115	
No Response	50,000	---	38,138	---	32,750	29,825	58,750	33,050	---	54,000	41,000	40,000	
	37,404	43,000	30,500	30,000	25,389	24,500	35,000	25,000	---	48,000	37,000	30,000	
	28,250	---	24,500	---	22,000	19,375	29,250	21,660	---	27,000	32,250	23,000	
	39,676	43,000	32,242	30,000	27,397	26,505	41,000	29,071	---	43,000	36,700	33,002	
	13,731	---	11,107	2,828	8,922	9,294	16,753	12,494	---	14,177	4,843	12,603	
	36	1	13	2	25	16	4	18	0	3	5	123	
TOTAL	44,000	47,500	33,000	37,834	37,000	35,250	45,000	40,000	35,000	46,150	42,038	40,000	
	34,000	38,000	27,950	32,000	30,000	29,000	36,000	32,000	30,000	36,000	34,300	31,000	
	26,000	30,000	22,000	26,000	24,000	23,000	29,700	26,000	23,000	27,000	23,750	25,000	
	36,813	38,332	29,075	34,583	31,848	30,624	39,047	33,892	31,447	36,944	35,195	33,492	
	13,956	10,528	9,492	11,433	10,837	10,500	13,036	11,329	10,843	11,759	12,478	11,949	
	343	41	192	52	399	202	75	263	39	47	50	1,703	

TABLE-5.1.0

SALARIES of POST-DOCTORAL CHEMISTS
by TYPE OF SCHOOL and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
SCHOOL TYPE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Doctorate	---	---	16,000	18,000	18,345	16,000	---	---	---	---	17,000	16,950	- 75th %-ile
	---	13,380	14,040	15,000	16,788	14,900	20,000	---	15,000	---	14,750	14,800	- 50th %-ile
	---	---	13,000	13,350	16,000	8,000	---	---	---	---	13,875	13,383	- 25th %-ile
	---	13,380	14,910	16,852	18,300	12,967	20,000	---	15,000	---	15,525	15,537	- Mean
	---	---	3,457	4,924	4,851	4,336	---	---	---	---	2,862	3,890	- Std Dev
	0	1	103	37	8	3	1	0	1	0	26	180	- Count
Non-Doctorate	---	---	---	---	32,271	---	---	---	---	---	---	29,303	
	---	---	14,000	---	20,400	---	---	---	---	---	---	20,200	
	---	---	---	---	20,000	---	---	---	---	---	---	15,500	
	---	---	14,000	---	24,224	---	---	---	---	---	---	21,668	
	---	---	---	---	6,972	---	---	---	---	---	---	7,651	
	0	0	1	0	3	0	0	0	0	0	0	4	
TOTAL	---	---	16,000	18,000	20,400	16,000	---	---	---	---	17,000	17,000	
	---	13,380	14,040	15,000	17,040	14,900	20,000	---	15,000	---	14,750	14,840	
	---	---	13,095	13,350	16,000	8,000	---	---	---	---	13,875	13,393	
	---	13,380	14,901	16,852	19,915	12,967	20,000	---	15,000	---	15,525	15,670	
	---	---	3,442	4,924	5,818	4,336	---	---	---	---	2,862	4,070	
	0	1	104	37	11	3	1	0	1	0	26	184	

TABLE-6.1.0

SALARIES of FULL-TIME EMPLOYED CHEMICAL ENGINEERS
by HIGHEST DEGREE and YEARS SINCE BS
1983 Survey of ACS Members

	YEARS SINCE BS												
HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Resp	TOTAL	
Bachelors	27,750	30,180	38,375	41,550	64,800	58,625	57,000	55,000	61,558	59,900	---	52,400	- 75th %-ile
	26,260	27,000	29,936	37,250	40,700	48,200	52,000	45,000	48,000	48,900	---	40,000	- 50th %-ile
	25,500	25,585	26,600	32,500	35,248	37,000	45,551	38,375	36,600	40,000	---	30,360	- 25th %-ile
	26,587	27,382	32,436	37,681	47,149	49,134	50,622	47,333	48,327	51,054	---	42,565	- Mean
	1,960	5,742	9,142	8,844	15,092	16,949	9,379	13,513	17,813	14,757	---	15,158	- Std Dev
	6	33	34	21	15	12	23	50	29	36	0	259	- Count
Masters	---	34,310	36,250	41,900	51,013	62,000	64,000	82,000	60,750	70,500	48,000	54,000	
	---	31,400	32,000	37,500	40,600	55,000	46,700	54,000	48,600	54,500	38,600	41,900	
	---	28,000	29,000	32,000	34,825	39,000	39,625	48,000	41,500	42,750	32,875	33,900	
	---	31,068	33,705	37,280	43,205	53,497	51,243	62,101	50,710	55,561	39,630	46,182	
	---	3,862	7,150	6,076	9,125	15,699	15,951	19,349	13,219	18,352	8,596	16,336	
	0	10	46	27	30	23	14	35	26	22	10	243	
Doctorate	---	---	42,225	46,075	55,000	58,850	65,375	64,500	63,000	70,860	52,750	57,000	
	---	---	38,450	42,949	50,000	53,300	55,500	52,000	54,270	50,000	47,550	48,500	
	---	---	33,625	37,600	43,750	48,000	43,848	43,750	40,241	44,000	35,363	40,250	
	---	---	38,328	42,160	50,066	54,226	56,365	55,464	52,568	54,027	46,200	50,462	
	---	---	5,933	8,353	11,162	12,156	16,116	17,360	15,203	16,309	12,820	14,423	
	0	0	32	50	45	58	42	49	32	31	16	355	
No Response	---	---	---	---	---	---	---	---	---	---	77,500	77,500	
	---	---	---	---	---	---	---	---	---	---	40,000	40,000	
	---	---	---	---	---	---	---	---	---	---	32,500	32,500	
	---	---	---	---	---	---	---	---	---	---	50,000	50,000	
	---	---	---	---	---	---	---	---	---	---	27,080	27,080	
	0	0	0	0	0	0	0	0	0	0	4	4	
TOTAL	27,750	31,000	38,875	44,550	54,000	59,000	61,500	60,250	60,000	65,000	49,950	55,000	
	26,260	28,800	33,500	40,000	45,850	53,000	53,000	50,000	50,000	51,000	43,250	45,000	
	25,500	25,800	29,000	35,300	39,575	45,400	43,393	41,900	40,000	41,450	35,000	36,000	
	26,587	28,239	34,641	39,856	47,293	53,389	53,785	54,164	50,599	53,204	44,517	46,876	
	1,960	5,550	7,821	8,178	11,579	13,698	14,541	17,507	15,512	16,161	14,063	15,598	
	6	43	112	98	90	93	79	134	87	89	30	861	

TABLE-7.1.0

EMPLOYMENT STATUS OF RESPONDENTS
by WORK FIELD
1983 Survey of ACS Members

	WORK FIELD					
EMPLOYMENT STATUS	Chemical Engineering	Chem-istry	Non-Chemical	No Response	TOTAL	
Postdoctoral or	5	259	5	2	271	-Count
Other Fellowship	1.8%	95.6%	1.8%	0.7%	100.0%	-% of Row
	0.5%	2.5%	0.4%	1.0%	2.1%	-% of Col
Employed	900	9,169	1,033	132	11,234	
Full-time	8.0%	81.6%	9.2%	1.2%	100.0%	
	87.6%	88.8%	86.4%	67.3%	88.1%	
Unemployed	32	218	41	17	308	
Seeking	10.4%	70.8%	13.3%	5.5%	100.0%	
	3.1%	2.1%	3.4%	8.7%	2.4%	
Unemployed	26	118	21	13	178	
Not Seeking	14.6%	66.3%	11.8%	7.3%	100.0%	
	2.5%	1.1%	1.8%	6.6%	1.4%	
Employed	16	163	26	4	209	
Part-time	7.7%	78.0%	12.4%	1.9%	100.0%	
	1.6%	1.6%	2.2%	2.0%	1.6%	
No Response	48	401	70	28	547	
	8.8%	73.3%	12.8%	5.1%	100.0%	
	4.7%	3.9%	5.9%	14.3%	4.3%	
TOTAL	1,027	10,328	1,196	196	12,747	
	8.1%	81.0%	9.4%	1.5%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.0

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
EMPLOYMENT STATUS	Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctoral or Other Fellowship	9	10	239	1	259	-Count
	3.5%	3.9%	92.3%	0.4%	100.0%	-% of Row
	0.3%	0.5%	4.2%	1.4%	2.5%	-% of Col
Employed Full-time	2,419	1,637	5,056	57	9,169	
	26.4%	17.9%	55.1%	0.6%	100.0%	
	89.9%	89.8%	88.0%	82.6%	88.8%	
Unemployed Seeking	79	36	101	2	218	
	36.2%	16.5%	46.3%	0.9%	100.0%	
	2.9%	2.0%	1.8%	2.9%	2.1%	
Unemployed Not Seeking	41	27	47	3	118	
	34.7%	22.9%	39.8%	2.5%	100.0%	
	1.5%	1.5%	0.8%	4.3%	1.1%	
Employed Part-time	40	38	84	1	163	
	24.5%	23.3%	51.5%	0.6%	100.0%	
	1.5%	2.1%	1.5%	1.4%	1.6%	
No Response	104	74	218	5	401	
	25.9%	18.5%	54.4%	1.2%	100.0%	
	3.9%	4.1%	3.8%	7.2%	3.9%	
TOTAL	2,692	1,822	5,745	69	10,328	
	26.1%	17.6%	55.6%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.1

EMPLOYMENT STATUS OF CHEMISTS -MEN Only
by HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
EMPLOYMENT STATUS	Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctoral or	5	8	183	0	196	-Count
Other Fellowship	2.6%	4.1%	93.4%	0.0%	100.0%	-% of Row
	0.2%	0.5%	3.5%	0.0%	2.2%	-% of Col
Employed	1,915	1,343	4,610	48	7,916	
Full-time	24.2%	17.0%	58.2%	0.6%	100.0%	
	90.8%	91.4%	89.0%	81.4%	89.8%	
Unemployed	55	24	90	2	171	
Seeking	32.2%	14.0%	52.6%	1.2%	100.0%	
	2.6%	1.6%	1.7%	3.4%	1.9%	
Unemployed	23	17	37	3	80	
Not Seeking	28.8%	21.3%	46.3%	3.8%	100.0%	
	1.1%	1.2%	0.7%	5.1%	0.9%	
Employed	19	18	59	1	97	
Part-time	19.6%	18.6%	60.8%	1.0%	100.0%	
	0.9%	1.2%	1.1%	1.7%	1.1%	
No Response	91	60	202	5	358	
	25.4%	16.8%	56.4%	1.4%	100.0%	
	4.3%	4.1%	3.9%	8.5%	4.1%	
TOTAL	2,108	1,470	5,181	59	8,818	
	23.9%	16.7%	58.8%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.2

EMPLOYMENT STATUS OF CHEMISTS -WOMEN Only
by HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
EMPLOYMENT STATUS	Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctoral or Other Fellowship	4	2	54	0	60	-Count
	6.7%	3.3%	90.0%	0.0%	100.0%	-% of Row
	0.7%	0.6%	10.8%	0.0%	4.3%	-% of Col
Employed Full-time	485	278	387	8	1,158	
	41.9%	24.0%	33.4%	0.7%	100.0%	
	86.8%	83.0%	77.6%	100.0%	82.7%	
Unemployed Seeking	22	12	11	0	45	
	48.9%	26.7%	24.4%	0.0%	100.0%	
	3.9%	3.6%	2.2%	0.0%	3.2%	
Unemployed Not Seeking	18	10	10	0	38	
	47.4%	26.3%	26.3%	0.0%	100.0%	
	3.2%	3.0%	2.0%	0.0%	2.7%	
Employed Part-time	20	20	21	0	61	
	32.8%	32.8%	34.4%	0.0%	100.0%	
	3.6%	6.0%	4.2%	0.0%	4.4%	
No Response	10	13	16	0	39	
	25.6%	33.3%	41.0%	0.0%	100.0%	
	1.8%	3.9%	3.2%	0.0%	2.8%	
TOTAL	559	335	499	8	1,401	
	39.9%	23.9%	35.6%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.3.0

EMPLOYMENT STATUS OF CHEMISTS
by AGE LEVEL
1983 Survey of ACS Members

	AGE LEVEL													
EMPLOYMENT STATUS	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70	No Response	TOTAL	
Postdoctoral or Other Fellowship	4 1.5% 1.7%	108 41.7% 9.6%	85 32.8% 5.5%	35 13.5% 2.2%	16 6.2% 1.0%	4 1.5% 0.4%	3 1.2% 0.3%	2 0.8% 0.2%	1 0.4% 0.1%	0 0.0% 0.0%	1 0.4% 4.0%	0 0.0% 0.0%	259 100.0% 2.5%	-Count -% of Row -% of Col
Employed Full-time	210 2.3% 88.6%	949 10.4% 84.1%	1,385 15.1% 89.2%	1,421 15.5% 90.8%	1,415 15.4% 91.9%	1,025 11.2% 91.1%	1,063 11.6% 89.6%	914 10.0% 88.7%	590 6.4% 86.0%	142 1.5% 67.3%	18 0.2% 72.0%	37 0.4% 92.5%	9,169 100.0% 88.8%	
Unemployed Seeking	6 2.8% 2.5%	30 13.8% 2.7%	25 11.5% 1.6%	40 18.3% 2.6%	32 14.7% 2.1%	24 11.0% 2.1%	27 12.4% 2.3%	23 10.6% 2.2%	8 3.7% 1.2%	1 0.5% 0.5%	0 0.0% 0.0%	2 0.9% 5.0%	218 100.0% 2.1%	
Unemployed Not Seeking	3 2.5% 1.3%	9 7.6% 0.8%	9 7.6% 0.6%	9 7.6% 0.6%	7 5.9% 0.5%	7 5.9% 0.6%	12 10.2% 1.0%	15 12.7% 1.5%	14 11.9% 2.0%	32 27.1% 15.2%	1 0.8% 4.0%	0 0.0% 0.0%	118 100.0% 1.1%	
Employed Part-time	7 4.3% 3.0%	10 6.1% 0.9%	12 7.4% 0.8%	22 13.5% 1.4%	18 11.0% 1.2%	11 6.7% 1.0%	16 9.8% 1.3%	18 11.0% 1.7%	20 12.3% 2.9%	24 14.7% 11.4%	4 2.5% 16.0%	1 0.6% 2.5%	163 100.0% 1.6%	
No Response	7 1.7% 3.0%	23 5.7% 2.0%	36 9.0% 2.3%	38 9.5% 2.4%	52 13.0% 3.4%	54 13.5% 4.8%	66 16.5% 5.6%	59 14.7% 5.7%	53 13.2% 7.7%	12 3.0% 5.7%	1 0.2% 4.0%	0 0.0% 0.0%	401 100.0% 3.9%	
TOTAL	237 2.3% 100.0%	1,129 10.9% 100.0%	1,552 15.0% 100.0%	1,565 15.2% 100.0%	1,540 14.9% 100.0%	1,125 10.9% 100.0%	1,187 11.5% 100.0%	1,031 10.0% 100.0%	686 6.6% 100.0%	211 2.0% 100.0%	25 0.2% 100.0%	40 0.4% 100.0%	10,328 100.0% 100.0%	

TABLE-7.4.0

EMPLOYMENT STATUS OF CHEMISTS
by MINORITY GROUP CLASSIFICATION
1983 Survey of ACS Members

	RACE								
EMPLOYMENT STATUS	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response	TOTAL	
Postdoctoral or Other Fellowship	203 78.4% 2.2%	3 1.2% 2.0%	0 0.0% 0.0%	46 17.8% 6.9%	4 1.5% 4.3%	2 0.8% 3.8%	1 0.4% 1.4%	259 100.0% 2.5%	-Count -% of Row -% of Col
Employed Full-time	8,281 90.3% 89.2%	131 1.4% 88.5%	19 0.2% 95.0%	553 6.0% 83.3%	80 0.9% 86.0%	43 0.5% 82.7%	62 0.7% 89.9%	9,169 100.0% 88.8%	
Unemployed Seeking	188 86.2% 2.0%	6 2.8% 4.1%	0 0.0% 0.0%	19 8.7% 2.9%	4 1.8% 4.3%	1 0.5% 1.9%	0 0.0% 0.0%	218 100.0% 2.1%	
Unemployed Not Seeking	113 95.8% 1.2%	0 0.0% 0.0%	0 0.0% 0.0%	3 2.5% 0.5%	1 0.8% 1.1%	1 0.8% 1.9%	0 0.0% 0.0%	118 100.0% 1.1%	
Employed Part-time	147 90.2% 1.6%	3 1.8% 2.0%	1 0.6% 5.0%	9 5.5% 1.4%	0 0.0% 0.0%	1 0.6% 1.9%	2 1.2% 2.9%	163 100.0% 1.6%	
No Response	350 87.3% 3.8%	5 1.2% 3.4%	0 0.0% 0.0%	34 8.5% 5.1%	4 1.0% 4.3%	4 1.0% 7.7%	4 1.0% 5.8%	401 100.0% 3.9%	
TOTAL	9,282 89.9% 100.0%	148 1.4% 100.0%	20 0.2% 100.0%	664 6.4% 100.0%	93 0.9% 100.0%	52 0.5% 100.0%	69 0.7% 100.0%	10,328 100.0% 100.0%	

TABLE-7.5.0

EMPLOYMENT STATUS OF CHEMISTS
by CITIZENSHIP
1983 Survey of ACS Members

	CITIZENSHIP					
EMPLOYMENT STATUS	US Citizen	Permanent Resident	Other	No Response	TOTAL	
Postdoctoral or Other Fellowship	193	23	42	1	259	-Count
	74.5%	8.9%	16.2%	0.4%	100.0%	-% of Row
	2.0%	5.6%	45.2%	2.2%	2.5%	-% of Col
Employed Full-time	8,732	358	43	36	9,169	
	95.2%	3.9%	0.5%	0.4%	100.0%	
	89.3%	86.9%	46.2%	78.3%	88.8%	
Unemployed Seeking	200	13	2	3	218	
	91.7%	6.0%	0.9%	1.4%	100.0%	
	2.0%	3.2%	2.2%	6.5%	2.1%	
Unemployed Not Seeking	114	3	0	1	118	
	96.6%	2.5%	0.0%	0.8%	100.0%	
	1.2%	0.7%	0.0%	2.2%	1.1%	
Employed Part-time	156	4	0	3	163	
	95.7%	2.5%	0.0%	1.8%	100.0%	
	1.6%	1.0%	0.0%	6.5%	1.6%	
No Response	382	11	6	2	401	
	95.3%	2.7%	1.5%	0.5%	100.0%	
	3.9%	2.7%	6.5%	4.3%	3.9%	
TOTAL	9,777	412	93	46	10,328	
	94.7%	4.0%	0.9%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.6.0

EMPLOYMENT STATUS OF CHEMISTS
by EMPLOYER TYPE
1983 Survey of ACS Members

	EMPLOYER TYPE							
EMPLOYMENT STATUS	Industry	Government	Other Non-Acad.	College/ Univ.	High School	No Response	TOTAL	
Postdoctoral or Other Fellowship	10	18	19	206	1	5	259	-Count
	3.9%	6.9%	7.3%	79.5%	0.4%	1.9%	100.0%	-% of Row
	0.2%	1.9%	3.5%	8.6%	1.1%	2.3%	2.5%	-% of Col
Employed Full-time	5,665	848	441	1,965	74	176	9,169	
	61.8%	9.2%	4.8%	21.4%	0.8%	1.9%	100.0%	
	92.4%	89.2%	80.2%	82.4%	80.4%	81.1%	88.8%	
Unemployed Seeking	138	11	19	35	3	12	218	
	63.3%	5.0%	8.7%	16.1%	1.4%	5.5%	100.0%	
	2.3%	1.2%	3.5%	1.5%	3.3%	5.5%	2.1%	
Unemployed Not Seeking	53	6	23	29	3	4	118	
	44.9%	5.1%	19.5%	24.6%	2.5%	3.4%	100.0%	
	0.9%	0.6%	4.2%	1.2%	3.3%	1.8%	1.1%	
Employed Part-time	53	20	24	57	5	4	163	
	32.5%	12.3%	14.7%	35.0%	3.1%	2.5%	100.0%	
	0.9%	2.1%	4.4%	2.4%	5.4%	1.8%	1.6%	
No Response	214	48	24	93	6	16	401	
	53.4%	12.0%	6.0%	23.2%	1.5%	4.0%	100.0%	
	3.5%	5.0%	4.4%	3.9%	6.5%	7.4%	3.9%	
TOTAL	6,133	951	550	2,385	92	217	10,328	
	59.4%	9.2%	5.3%	23.1%	0.9%	2.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.6.1

EMPLOYMENT STATUS OF CHEMISTS
by NON-ACADEMIC EMPLOYER
1983 Survey of ACS Members

NON-ACADEMIC EMPLOYER

EMPLOYMENT STATUS	Mfg Chem	Mfg Coat	Mfg Food	Mfg Metals	Mfg Paper	Mfg Petro	Mfg Pharm	Mfg Rubber	Mfg Other	Non-Mfg	Federal Govt	State/Local	Hospital	Non-Profit	Self-Employed	Other	TOTAL	
Postdoctoral or Other Fellowship	2 4.3% 0.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	5 10.6% 0.5%	0 0.0% 0.0%	3 6.4% 0.2%	0 0.0% 0.0%	18 38.3% 2.5%	0 0.0% 0.0%	6 12.8% 3.6%	13 27.7% 5.1%	0 0.0% 0.0%	0 0.0% 0.0%	47 100.0% 0.6%	-Count -% of Row -% of Col
Employed Full-time	1,772 25.5% 92.4%	358 5.1% 92.7%	233 3.4% 92.8%	166 2.4% 93.3%	85 1.2% 92.4%	389 5.6% 94.4%	1,0[illegible] 14.6% 94.1%	135 1.9% 95.1%	1,149 16.5% 90.6%	365 5.2% 89.0%	631 9.1% 88.5%	217 3.1% 91.2%	146 2.1% 87.4%	210 3.0% 82.7%	55 0.8% 59.8%	30 0.4% 81.1%	6,954 100.0% 91.1%	
Unemployed Seeking	43 25.6% 2.2%	4 2.4% 1.0%	4 2.4% 1.6%	7 4.2% 3.9%	4 2.4% 4.3%	8 4.8% 1.9%	17 10.1% 1.6%	1 0.6% 0.7%	32 19.0% 2.5%	18 10.7% 4.4%	7 4.2% 1.0%	4 2.4% 1.7%	2 1.2% 1.2%	7 4.2% 2.8%	7 4.2% 7.6%	3 1.8% 8.1%	168 100.0% 2.2%	
Unemployed Not Seeking	15 18.3% 0.8%	6 7.3% 1.6%	3 3.7% 1.2%	0 0.0% 0.0%	0 0.0% 0.0%	7 8.5% 1.7%	1 1.2% 0.1%	1 1.2% 0.7%	15 18.3% 1.2%	5 6.1% 1.2%	2 2.4% 0.3%	4 4.9% 1.7%	6 7.3% 3.6%	12 14.6% 4.7%	5 6.1% 5.4%	0 0.0% 0.0%	82 100.0% 1.1%	
Employed Part-time	19 19.6% 1.0%	5 5.2% 1.3%	1 1.0% 0.4%	2 2.1% 1.1%	1 1.0% 1.1%	1 1.0% 0.2%	3 3.1% 0.3%	0 0.0% 0.0%	9 9.3% 0.7%	12 12.4% 2.9%	19 19.6% 2.7%	1 1.0% 0.4%	3 3.1% 1.8%	3 3.1% 1.2%	15 15.5% 16.3%	3 3.1% 8.1%	97 100.0% 1.3%	
No Response	67 23.4% 3.5%	13 4.5% 3.4%	10 3.5% 4.0%	3 1.0% 1.7%	2 0.7% 2.2%	7 2.4% 1.7%	37 12.9% 3.4%	5 1.7% 3.5%	60 21.0% 4.7%	10 3.5% 2.4%	36 12.6% 5.0%	12 4.2% 5.0%	4 1.4% 2.4%	9 3.1% 3.5%	10 3.5% 10.9%	1 0.3% 2.7%	286 100.0% 3.7%	
TOTAL	1,918 25.1% 100.0%	386 5.1% 100.0%	251 3.3% 100.0%	178 2.3% 100.0%	92 1.2% 100.0%	412 5.4% 100.0%	1,076 14.1% 100.0%	142 1.9% 100.0%	1,268 16.6% 100.0%	410 5.4% 100.0%	713 9.3% 100.0%	238 3.1% 100.0%	167 2.2% 100.0%	254 3.3% 100.0%	92 1.2% 100.0%	37 0.5% 100.0%	7,634 100.0% 100.0%	

TABLE-7.6.2

EMPLOYMENT STATUS OF CHEMISTS
by ACADEMIC EMPLOYER
1983 Survey of ACS Members

	ACADEMIC EMPLOYER									
EMPLOYMENT STATUS	Private Doctorate	Private Master	Private Bachelor	Private Assoc.	Public Doctor.	Public Master	Public Bachelor	Public Assoc.	TOTAL	
Postdoctoral or Other Fellowship	95	1	2	0	103	3	0	2	206	-Count
	46.1%	0.5%	1.0%	0.0%	50.0%	1.5%	0.0%	1.0%	100.0%	-% of Row
	18.4%	1.5%	0.6%	0.0%	10.7%	1.6%	0.0%	1.3%	8.6%	-% of Col
Employed Full-time	369	60	287	12	778	176	153	130	1,965	
	18.8%	3.1%	14.6%	0.6%	39.6%	9.0%	7.8%	6.6%	100.0%	
	71.4%	88.2%	91.4%	92.3%	80.6%	91.2%	92.2%	87.2%	82.4%	
Unemployed Seeking	9	0	2	0	18	4	1	1	35	
	25.7%	0.0%	5.7%	0.0%	51.4%	11.4%	2.9%	2.9%	100.0%	
	1.7%	0.0%	0.6%	0.0%	1.9%	2.1%	0.6%	0.7%	1.5%	
Unemployed Not Seeking	4	0	6	0	15	2	1	1	29	
	13.8%	0.0%	20.7%	0.0%	51.7%	6.9%	3.4%	3.4%	100.0%	
	0.8%	0.0%	1.9%	0.0%	1.6%	1.0%	0.6%	0.7%	1.2%	
Employed Part-time	14	3	8	0	18	3	4	7	57	
	24.6%	5.3%	14.0%	0.0%	31.6%	5.3%	7.0%	12.3%	100.0%	
	2.7%	4.4%	2.5%	0.0%	1.9%	1.6%	2.4%	4.7%	2.4%	
No Response	26	4	9	1	33	5	7	8	93	
	28.0%	4.3%	9.7%	1.1%	35.5%	5.4%	7.5%	8.6%	100.0%	
	5.0%	5.9%	2.9%	7.7%	3.4%	2.6%	4.2%	5.4%	3.9%	
TOTAL	517	68	314	13	965	193	166	149	2,385	
	21.7%	2.9%	13.2%	0.5%	40.5%	8.1%	7.0%	6.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.7.0

EMPLOYMENT STATUS OF CHEMISTS
by NON-ACADEMIC WORK FUNCTION
1983 Survey of ACS Members

EMPLOYMENT STATUS	NON-ACADEMIC WORK FUNCTION Mgt R&D	Basic R&D	Applied R&D	Mgt Non-R&D	Market-ing	Prod & QC	Forsenic	Writing/ Editing	Data Proc	Consult-ing	Other	No Response	TOTAL	
Postdoctoral or Other Fellowship	4 8.5% 0.3%	29 61.7% 2.7%	5 10.6% 0.2%	1 2.1% 0.2%	0 0.0% 0.0%	1 2.1% 0.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 2.1% 0.7%	1 2.1% 0.6%	5 10.6% 1.0%	47 100.0% 0.6%	-Count -% of Row -% of Col
Employed Full-time	1,102 15.8% 92.1%	993 14.3% 91.4%	2,220 31.9% 93.1%	488 7.0% 93.0%	397 5.7% 92.1%	687 9.9% 91.2%	319 4.6% 89.4%	75 1.1% 87.2%	17 0.2% 94.4%	92 1.3% 65.2%	156 2.2% 89.7%	408 5.9% 84.6%	6,954 100.0% 91.1%	
Unemployed Seeking	23 13.7% 1.9%	10 6.0% 0.9%	48 28.6% 2.0%	8 4.8% 1.5%	11 6.5% 2.6%	23 13.7% 3.1%	14 8.3% 3.9%	2 1.2% 2.3%	0 0.0% 0.0%	10 6.0% 7.1%	4 2.4% 2.3%	15 8.9% 3.1%	168 100.0% 2.2%	
Unemployed Not Seeking	6 7.3% 0.5%	10 12.2% 0.9%	18 22.0% 0.8%	8 9.8% 1.5%	4 4.9% 0.9%	8 9.8% 1.1%	8 9.8% 2.2%	1 1.2% 1.2%	0 0.0% 0.0%	5 6.1% 3.5%	3 3.7% 1.7%	11 13.4% 2.3%	82 100.0% 1.1%	
Employed Part-time	7 7.2% 0.6%	7 7.2% 0.6%	17 17.5% 0.7%	3 3.1% 0.6%	5 5.2% 1.2%	7 7.2% 0.9%	8 8.2% 2.2%	4 4.1% 4.7%	0 0.0% 0.0%	24 24.7% 17.0%	2 2.1% 1.1%	13 13.4% 2.7%	97 100.0% 1.3%	
No Response	55 19.2% 4.6%	37 12.9% 3.4%	76 26.6% 3.2%	17 5.9% 3.2%	14 4.9% 3.2%	27 9.4% 3.6%	8 2.8% 2.2%	4 1.4% 4.7%	1 0.3% 5.6%	9 3.1% 6.4%	8 2.8% 4.6%	30 10.5% 6.2%	286 100.0% 3.7%	
TOTAL	1,197 15.7% 100.0%	1,086 14.2% 100.0%	2,384 31.2% 100.0%	525 6.9% 100.0%	431 5.6% 100.0%	753 9.9% 100.0%	357 4.7% 100.0%	86 1.1% 100.0%	18 0.2% 100.0%	141 1.8% 100.0%	174 2.3% 100.0%	482 6.3% 100.0%	7,634 100.0% 100.0%	

TABLE-7.8.0

EMPLOYMENT STATUS OF CHEMISTS
by WORK SPECIALTY
1983 Survey of ACS Members

WORK SPECIALTY

EMPLOYMENT STATUS	Biochem	Agri/ Food	Analy- tical	Environ- mental	Organic	In- Organic	Pharm/ Med/Clin	Physical	Theoret- ical	Polymer/ Macro	Other Chem	TOTAL	
Postdoctoral or Other Fellowship	74	4	18	6	65	23	20	30	4	8	7	259	-Count
	28.6%	1.5%	6.9%	2.3%	25.1%	8.9%	7.7%	11.6%	1.5%	3.1%	2.7%	100.0%	-% of Row
	8.6%	0.9%	0.9%	0.9%	3.9%	3.5%	2.2%	3.7%	6.7%	0.6%	0.8%	2.5%	-% of Col
Employed Full-time	719	402	1,900	568	1,457	582	807	707	54	1,154	819	9,169	
	7.8%	4.4%	20.7%	6.2%	15.9%	6.3%	8.8%	7.7%	0.6%	12.6%	8.9%	100.0%	
	83.3%	89.5%	91.4%	89.6%	86.5%	87.4%	89.2%	87.9%	90.0%	91.7%	88.5%	88.8%	
Unemployed Seeking	11	8	47	18	35	9	19	15	1	34	21	218	
	5.0%	3.7%	21.6%	8.3%	16.1%	4.1%	8.7%	6.9%	0.5%	15.6%	9.6%	100.0%	
	1.3%	1.8%	2.3%	2.8%	2.1%	1.4%	2.1%	1.9%	1.7%	2.7%	2.3%	2.1%	
Unemployed Not Seeking	13	6	17	6	22	8	10	11	0	9	16	118	
	11.0%	5.1%	14.4%	5.1%	18.6%	6.8%	8.5%	9.3%	0.0%	7.6%	13.6%	100.0%	
	1.5%	1.3%	0.8%	0.9%	1.3%	1.2%	1.1%	1.4%	0.0%	0.7%	1.7%	1.1%	
Employed Part-time	18	9	28	11	22	19	16	6	0	11	23	163	
	11.0%	5.5%	17.2%	6.7%	13.5%	11.7%	9.8%	3.7%	0.0%	6.7%	14.1%	100.0%	
	2.1%	2.0%	1.3%	1.7%	1.3%	2.9%	1.8%	0.7%	0.0%	0.9%	2.5%	1.6%	
No Response	28	20	69	25	84	25	33	35	1	42	39	401	
	7.0%	5.0%	17.2%	6.2%	20.9%	6.2%	8.2%	8.7%	0.2%	10.5%	9.7%	100.0%	
	3.2%	4.5%	3.3%	3.9%	5.0%	3.8%	3.6%	4.4%	1.7%	3.3%	4.2%	3.9%	
TOTAL	863	449	2,079	634	1,685	666	905	804	60	1,258	925	10,328	
	8.4%	4.3%	20.1%	6.1%	16.3%	6.4%	8.8%	7.8%	0.6%	12.2%	9.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.9.0

EMPLOYMENT STATUS OF CHEMISTS
by GEOGRAPHIC REGION
1983 Survey of ACS Members

	REGION											
EMPLOYMENT STATUS	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid-Atlan.	So. Atlan.	New England	No Response	TOTAL	
Postdoctoral or Other Fellowship	38 14.7% 3.3%	13 5.0% 3.4%	17 6.6% 2.7%	17 6.6% 2.1%	29 11.2% 1.4%	12 4.6% 3.0%	45 17.4% 1.8%	42 16.2% 2.7%	40 15.4% 5.5%	6 2.3% 6.5%	259 100.0% 2.5%	-Count -% of Row -% of Col
Employed Full-time	993 10.8% 85.8%	326 3.6% 86.5%	574 6.3% 91.0%	739 8.1% 90.5%	1,937 21.1% 91.5%	346 3.8% 87.2%	2,194 23.9% 89.8%	1,360 14.8% 86.9%	629 6.9% 86.0%	71 0.8% 76.3%	9,169 100.0% 88.8%	
Unemployed Seeking	30 13.8% 2.6%	11 5.0% 2.9%	8 3.7% 1.3%	14 6.4% 1.7%	38 17.4% 1.8%	10 4.6% 2.5%	66 30.3% 2.7%	27 12.4% 1.7%	11 5.0% 1.5%	3 1.4% 3.2%	218 100.0% 2.1%	
Unemployed Not Seeking	18 15.3% 1.6%	6 5.1% 1.6%	9 7.6% 1.4%	8 6.8% 1.0%	18 15.3% 0.8%	7 5.9% 1.8%	25 21.2% 1.0%	22 18.6% 1.4%	4 3.4% 0.5%	1 0.8% 1.1%	118 100.0% 1.1%	
Employed Part-time	28 17.2% 2.4%	9 5.5% 2.4%	13 8.0% 2.1%	10 6.1% 1.2%	23 14.1% 1.1%	6 3.7% 1.5%	26 16.0% 1.1%	32 19.6% 2.0%	14 8.6% 1.9%	2 1.2% 2.2%	163 100.0% 1.6%	
No Response	50 12.5% 4.3%	12 3.0% 3.2%	10 2.5% 1.6%	29 7.2% 3.5%	73 18.2% 3.4%	16 4.0% 4.0%	86 21.4% 3.5%	82 20.4% 5.2%	33 8.2% 4.5%	10 2.5% 10.8%	401 100.0% 3.9%	
TOTAL	1,157 11.2% 100.0%	377 3.7% 100.0%	631 6.1% 100.0%	817 7.9% 100.0%	2,118 20.5% 100.0%	397 3.8% 100.0%	2,442 23.6% 100.0%	1,565 15.2% 100.0%	731 7.1% 100.0%	93 0.9% 100.0%	10,328 100.0% 100.0%	

TABLE-8.1.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelors	Masters	Doctorate	No Response	TOTAL	
0-1	9	5	20	1	35	-Count
	25.7%	14.3%	57.1%	2.9%	100.0%	-% of Row
	11.4%	13.9%	19.8%	50.0%	16.1%	-% of Col
2-4	24	8	22	0	54	
	44.4%	14.8%	40.7%	0.0%	100.0%	
	30.4%	22.2%	21.8%	0.0%	24.8%	
5-7	17	6	19	0	42	
	40.5%	14.3%	45.2%	0.0%	100.0%	
	21.5%	16.7%	18.8%	0.0%	19.3%	
8-10	11	6	9	0	26	
	42.3%	23.1%	34.6%	0.0%	100.0%	
	13.9%	16.7%	8.9%	0.0%	11.9%	
11-13	3	3	9	1	16	
	18.8%	18.8%	56.3%	6.3%	100.0%	
	3.8%	8.3%	8.9%	50.0%	7.3%	
14-18	7	4	8	0	19	
	36.8%	21.1%	42.1%	0.0%	100.0%	
	8.9%	11.1%	7.9%	0.0%	8.7%	
19-24	1	3	2	0	6	
	16.7%	50.0%	33.3%	0.0%	100.0%	
	1.3%	8.3%	2.0%	0.0%	2.8%	
25-36	6	0	3	0	9	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	7.6%	0.0%	3.0%	0.0%	4.1%	
>=37	1	1	9	0	11	
	9.1%	9.1%	81.8%	0.0%	100.0%	
	1.3%	2.8%	8.9%	0.0%	5.0%	
TOTAL	79	36	101	2	218	
	36.2%	16.5%	46.3%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.1.1

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by HIGHEST DEGREE - MEN Only
1983 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelors	Masters	Doctorate	No Response	TOTAL	
0-1	6	3	18	1	28	-Count
	21.4%	10.7%	64.3%	3.6%	100.0%	-% of Row
	10.9%	12.5%	20.0%	50.0%	16.4%	-% of Col
2-4	17	6	19	0	42	
	40.5%	14.3%	45.2%	0.0%	100.0%	
	30.9%	25.0%	21.1%	0.0%	24.6%	
5-7	13	4	16	0	33	
	39.4%	12.1%	48.5%	0.0%	100.0%	
	23.6%	16.7%	17.8%	0.0%	19.3%	
8-10	7	3	9	0	19	
	36.8%	15.8%	47.4%	0.0%	100.0%	
	12.7%	12.5%	10.0%	0.0%	11.1%	
11-13	2	2	8	1	13	
	15.4%	15.4%	61.5%	7.7%	100.0%	
	3.6%	8.3%	8.9%	50.0%	7.6%	
14-18	5	2	7	0	14	
	35.7%	14.3%	50.0%	0.0%	100.0%	
	9.1%	8.3%	7.8%	0.0%	8.2%	
19-24	1	3	2	0	6	
	16.7%	50.0%	33.3%	0.0%	100.0%	
	1.8%	12.5%	2.2%	0.0%	3.5%	
25-36	4	0	2	0	6	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	7.3%	0.0%	2.2%	0.0%	3.5%	
>=37	0	1	9	0	10	
	0.0%	10.0%	90.0%	0.0%	100.0%	
	0.0%	4.2%	10.0%	0.0%	5.8%	
TOTAL	55	24	90	2	171	
	32.2%	14.0%	52.6%	1.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.1.2

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by HIGHEST DEGREE - WOMEN Only
1983 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelors	Masters	Doctorate	No Response	TOTAL	
0-1	3	2	2	0	7	-Count
	42.9%	28.6%	28.6%	0.0%	100.0%	-% of Row
	13.6%	16.7%	18.2%	***.*%	15.6%	-% of Col
2-4	7	2	3	0	12	
	58.3%	16.7%	25.0%	0.0%	100.0%	
	31.8%	16.7%	27.3%	***.*%	26.7%	
5-7	4	2	3	0	9	
	44.4%	22.2%	33.3%	0.0%	100.0%	
	18.2%	16.7%	27.3%	***.*%	20.0%	
8-10	4	3	0	0	7	
	57.1%	42.9%	0.0%	0.0%	100.0%	
	18.2%	25.0%	0.0%	***.*%	15.6%	
11-13	1	1	1	0	3	
	33.3%	33.3%	33.3%	0.0%	100.0%	
	4.5%	8.3%	9.1%	***.*%	6.7%	
14-18	1	2	1	0	4	
	25.0%	50.0%	25.0%	0.0%	100.0%	
	4.5%	16.7%	9.1%	***.*%	8.9%	
19-24	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	***.*%	0.0%	
25-36	2	0	1	0	3	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	9.1%	0.0%	9.1%	***.*%	6.7%	
>=37	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	***.*%	0.0%	
TOTAL	22	12	11	0	45	
	48.9%	26.7%	24.4%	0.0%	100.0%	
	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE-8.2.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by GEOGRAPHIC REGION
1983 Survey of ACS Members

	REGION											
MONTHS UNEMPLOYED	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid-Atlan.	South Atlan.	New England	No Response	TOTAL	
0-1	6 17.1% 20.0%	0 0.0% 0.0%	3 8.6% 37.5%	6 17.1% 42.9%	7 20.0% 18.4%	1 2.9% 10.0%	6 17.1% 9.1%	4 11.4% 14.8%	1 2.9% 9.1%	1 2.9% 33.3%	35 100.0% 16.1%	-Count -% of Row -% of Col
2-4	4 7.4% 13.3%	5 9.3% 45.5%	2 3.7% 25.0%	2 3.7% 14.3%	11 20.4% 28.9%	2 3.7% 20.0%	19 35.2% 28.8%	6 11.1% 22.2%	2 3.7% 18.2%	1 1.9% 33.3%	54 100.0% 24.8%	
5-7	5 11.9% 16.7%	1 2.4% 9.1%	2 4.8% 25.0%	4 9.5% 28.6%	6 14.3% 15.8%	2 4.8% 20.0%	13 31.0% 19.7%	7 16.7% 25.9%	2 4.8% 18.2%	0 0.0% 0.0%	42 100.0% 19.3%	
8-10	6 23.1% 20.0%	1 3.8% 9.1%	1 3.8% 12.5%	1 3.8% 7.1%	0 0.0% 0.0%	2 7.7% 20.0%	11 42.3% 16.7%	2 7.7% 7.4%	2 7.7% 18.2%	0 0.0% 0.0%	26 100.0% 11.9%	
11-13	3 18.8% 10.0%	1 6.3% 9.1%	0 0.0% 0.0%	1 6.3% 7.1%	5 31.3% 13.2%	1 6.3% 10.0%	2 12.5% 3.0%	3 18.8% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	16 100.0% 7.3%	
14-18	4 21.1% 13.3%	2 10.5% 18.2%	0 0.0% 0.0%	0 0.0% 0.0%	2 10.5% 5.3%	1 5.3% 10.0%	8 42.1% 12.1%	1 5.3% 3.7%	0 0.0% 0.0%	1 5.3% 33.3%	19 100.0% 8.7%	
19-24	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 50.0% 7.9%	0 0.0% 0.0%	0 0.0% 0.0%	2 33.3% 7.4%	1 16.7% 9.1%	0 0.0% 0.0%	6 100.0% 2.8%	
25-36	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 22.2% 5.3%	0 0.0% 0.0%	5 55.6% 7.6%	0 0.0% 0.0%	2 22.2% 18.2%	0 0.0% 0.0%	9 100.0% 4.1%	
>=37	2 18.2% 6.7%	1 9.1% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	2 18.2% 5.3%	1 9.1% 10.0%	2 18.2% 3.0%	2 18.2% 7.4%	1 9.1% 9.1%	0 0.0% 0.0%	11 100.0% 5.0%	
TOTAL	30 13.8% 100.0%	11 5.0% 100.0%	8 3.7% 100.0%	14 6.4% 100.0%	38 17.4% 100.0%	10 4.6% 100.0%	66 30.3% 100.0%	27 12.4% 100.0%	11 5.0% 100.0%	3 1.4% 100.0%	218 100.0% 100.0%	

TABLE-8.3.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by AGE LEVEL
1983 Survey of ACS Members

	AGE LEVEL													
MONTHS UNEMPLOYED	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70	No Response	TOTAL	
0-1	2 5.7% 33.3%	4 11.4% 13.3%	2 5.7% 8.0%	9 25.7% 22.5%	5 14.3% 15.6%	6 17.1% 25.0%	2 5.7% 7.4%	3 8.6% 13.0%	2 5.7% 25.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	35 100.0% 16.1%	-Count -% of Row -% of Col
2-4	2 3.7% 33.3%	11 20.4% 36.7%	7 13.0% 28.0%	9 16.7% 22.5%	9 16.7% 28.1%	2 3.7% 8.3%	5 9.3% 18.5%	7 13.0% 30.4%	1 1.9% 12.5%	0 0.0% 0.0%	0 0.0% ***.*%	1 1.9% 50.0%	54 100.0% 24.8%	
5-7	0 0.0% 0.0%	7 16.7% 23.3%	9 21.4% 36.0%	10 23.8% 25.0%	3 7.1% 9.4%	4 9.5% 16.7%	5 11.9% 18.5%	3 7.1% 13.0%	1 2.4% 12.5%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	42 100.0% 19.3%	
8-10	1 3.8% 16.7%	4 15.4% 13.3%	2 7.7% 8.0%	3 11.5% 7.5%	4 15.4% 12.5%	3 11.5% 12.5%	4 15.4% 14.8%	3 11.5% 13.0%	1 3.8% 12.5%	1 3.8% 100.0%	0 0.0% ***.*%	0 0.0% 0.0%	26 100.0% 11.9%	
11-13	0 0.0% 0.0%	0 0.0% 0.0%	2 12.5% 8.0%	3 18.8% 7.5%	4 25.0% 12.5%	2 12.5% 8.3%	4 25.0% 14.8%	1 6.3% 4.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	16 100.0% 7.3%	
14-18	1 5.3% 16.7%	1 5.3% 3.3%	3 15.8% 12.0%	2 10.5% 5.0%	3 15.8% 9.4%	4 21.1% 16.7%	3 15.8% 11.1%	1 5.3% 4.3%	1 5.3% 12.5%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	19 100.0% 8.7%	
19-24	0 0.0% 0.0%	1 16.7% 3.3%	0 0.0% 0.0%	1 16.7% 2.5%	1 16.7% 3.1%	0 0.0% 0.0%	3 50.0% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	6 100.0% 2.8%	
25-36	0 0.0% 0.0%	2 22.2% 6.7%	0 0.0% 0.0%	1 11.1% 2.5%	1 11.1% 3.1%	3 33.3% 12.5%	0 0.0% 0.0%	1 11.1% 4.3%	1 11.1% 12.5%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	9 100.0% 4.1%	
>=37	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 18.2% 5.0%	2 18.2% 6.3%	0 0.0% 0.0%	1 9.1% 3.7%	4 36.4% 17.4%	1 9.1% 12.5%	0 0.0% 0.0%	0 0.0% ***.*%	1 9.1% 50.0%	11 100.0% 5.0%	
TOTAL	6 2.8% 100.0%	30 13.8% 100.0%	25 11.5% 100.0%	40 18.3% 100.0%	32 14.7% 100.0%	24 11.0% 100.0%	27 12.4% 100.0%	23 10.6% 100.0%	8 3.7% 100.0%	1 0.5% 100.0%	0 0.0% ***.*%	2 0.9% 100.0%	218 100.0% 100.0%	

TABLE-8.4.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by NON-ACADEMIC WORK FUNCTION
1983 Survey of ACS Members

	NON-ACADEMIC WORK FUNCTION													
MONTHS UNEMPLOYED	Mgt R&D	Basic R&D	Applied R&D	Mgt Non-R&D	Market-Ing	Prod & QC	Forsenic	Writing/ Editing	Data Proc	Consult-Ing	Other	No Response	TOTAL	
0-1	2	4	7	0	0	3	1	1	0	3	1	13	35	-Count
	5.7%	11.4%	20.0%	0.0%	0.0%	8.6%	2.9%	2.9%	0.0%	8.6%	2.9%	37.1%	100.0%	-% of Row
	8.7%	33.3%	13.5%	0.0%	0.0%	12.5%	7.1%	50.0%	***.*%	25.0%	25.0%	23.2%	16.1%	-% of Col
2-4	5	2	14	1	2	6	5	0	0	5	1	13	54	
	9.3%	3.7%	25.9%	1.9%	3.7%	11.1%	9.3%	0.0%	0.0%	9.3%	1.9%	24.1%	100.0%	
	21.7%	16.7%	26.9%	12.5%	18.2%	25.0%	35.7%	0.0%	***.*%	41.7%	25.0%	23.2%	24.8%	
5-7	5	1	11	3	3	8	3	1	0	2	0	5	42	
	11.9%	2.4%	26.2%	7.1%	7.1%	19.0%	7.1%	2.4%	0.0%	4.8%	0.0%	11.9%	100.0%	
	21.7%	8.3%	21.2%	37.5%	27.3%	33.3%	21.4%	50.0%	***.*%	16.7%	0.0%	8.9%	19.3%	
8-10	3	0	6	1	2	4	2	0	0	0	0	8	26	
	11.5%	0.0%	23.1%	3.8%	7.7%	15.4%	7.7%	0.0%	0.0%	0.0%	0.0%	30.8%	100.0%	
	13.0%	0.0%	11.5%	12.5%	18.2%	16.7%	14.3%	0.0%	***.*%	0.0%	0.0%	14.3%	11.9%	
11-13	3	1	4	0	0	0	2	0	0	1	2	3	16	
	18.8%	6.3%	25.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	6.3%	12.5%	18.8%	100.0%	
	13.0%	8.3%	7.7%	0.0%	0.0%	0.0%	14.3%	0.0%	***.*%	8.3%	50.0%	5.4%	7.3%	
14-18	2	2	5	2	1	2	1	0	0	0	0	4	19	
	10.5%	10.5%	26.3%	10.5%	5.3%	10.5%	5.3%	0.0%	0.0%	0.0%	0.0%	21.1%	100.0%	
	8.7%	16.7%	9.6%	25.0%	9.1%	8.3%	7.1%	0.0%	***.*%	0.0%	0.0%	7.1%	8.7%	
19-24	1	0	0	1	1	0	0	0	0	0	0	3	6	
	16.7%	0.0%	0.0%	16.7%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	
	4.3%	0.0%	0.0%	12.5%	9.1%	0.0%	0.0%	0.0%	***.*%	0.0%	0.0%	5.4%	2.8%	
25-36	1	1	2	0	1	1	0	0	0	1	0	2	9	
	11.1%	11.1%	22.2%	0.0%	11.1%	11.1%	0.0%	0.0%	0.0%	11.1%	0.0%	22.2%	100.0%	
	4.3%	8.3%	3.8%	0.0%	9.1%	4.2%	0.0%	0.0%	***.*%	8.3%	0.0%	3.6%	4.1%	
>=37	1	1	3	0	1	0	0	0	0	0	0	5	11	
	9.1%	9.1%	27.3%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	45.5%	100.0%	
	4.3%	8.3%	5.8%	0.0%	9.1%	0.0%	0.0%	0.0%	***.*%	0.0%	0.0%	8.9%	5.0%	
TOTAL	23	12	52	8	11	24	14	2	0	12	4	56	218	
	10.6%	5.5%	23.9%	3.7%	5.0%	11.0%	6.4%	0.9%	0.0%	5.5%	1.8%	25.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.5.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1983
by WORK SPECIALTY
1983 Survey of ACS Members

SPECIALTY

MONTHS UNEMPLOYED	Biochem	Agric/ Food	Analy- tical	Environ- mental	Organic	In- organic	Pharm/ Med/Clin	Physical	Theoret- ical	Polymer/ Macro	Other	TOTAL	
0-1	3	1	4	4	5	2	2	4	0	6	4	35	-Count
	8.6%	2.9%	11.4%	11.4%	14.3%	5.7%	5.7%	11.4%	0.0%	17.1%	11.4%	100.0%	-% of Row
	27.3%	12.5%	8.5%	22.2%	14.3%	22.2%	10.5%	26.7%	0.0%	17.6%	19.0%	16.1%	-% of Col
2-4	2	2	12	6	7	5	6	2	0	7	5	54	
	3.7%	3.7%	22.2%	11.1%	13.0%	9.3%	11.1%	3.7%	0.0%	13.0%	9.3%	100.0%	
	18.2%	25.0%	25.5%	33.3%	20.0%	55.6%	31.6%	13.3%	0.0%	20.6%	23.8%	24.8%	
5-7	0	1	9	3	6	0	6	1	1	10	5	42	
	0.0%	2.4%	21.4%	7.1%	14.3%	0.0%	14.3%	2.4%	2.4%	23.8%	11.9%	100.0%	
	0.0%	12.5%	19.1%	16.7%	17.1%	0.0%	31.6%	6.7%	100.0%	29.4%	23.8%	19.3%	
8-10	3	1	10	0	5	0	0	3	0	2	2	26	
	11.5%	3.8%	38.5%	0.0%	19.2%	0.0%	0.0%	11.5%	0.0%	7.7%	7.7%	100.0%	
	27.3%	12.5%	21.3%	0.0%	14.3%	0.0%	0.0%	20.0%	0.0%	5.9%	9.5%	11.9%	
11-13	1	2	0	2	5	1	0	2	0	0	3	16	
	6.3%	12.5%	0.0%	12.5%	31.3%	6.3%	0.0%	12.5%	0.0%	0.0%	18.8%	100.0%	
	9.1%	25.0%	0.0%	11.1%	14.3%	11.1%	0.0%	13.3%	0.0%	0.0%	14.3%	7.3%	
14-18	1	1	9	0	3	0	1	1	0	3	0	19	
	5.3%	5.3%	47.4%	0.0%	15.8%	0.0%	5.3%	5.3%	0.0%	15.8%	0.0%	100.0%	
	9.1%	12.5%	19.1%	0.0%	8.6%	0.0%	5.3%	6.7%	0.0%	8.8%	0.0%	8.7%	
19-24	0	0	0	1	0	0	0	1	0	2	2	6	
	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	16.7%	0.0%	33.3%	33.3%	100.0%	
	0.0%	0.0%	0.0%	5.6%	0.0%	0.0%	0.0%	6.7%	0.0%	5.9%	9.5%	2.8%	
25-36	0	0	2	2	1	1	1	0	0	2	0	9	
	0.0%	0.0%	22.2%	22.2%	11.1%	11.1%	11.1%	0.0%	0.0%	22.2%	0.0%	100.0%	
	0.0%	0.0%	4.3%	11.1%	2.9%	11.1%	5.3%	0.0%	0.0%	5.9%	0.0%	4.1%	
>=37	1	0	1	0	3	0	3	1	0	2	0	11	
	9.1%	0.0%	9.1%	0.0%	27.3%	0.0%	27.3%	9.1%	0.0%	18.2%	0.0%	100.0%	
	9.1%	0.0%	2.1%	0.0%	8.6%	0.0%	15.8%	6.7%	0.0%	5.9%	0.0%	5.0%	
TOTAL	11	8	47	18	35	9	19	15	1	34	21	218	
	5.0%	3.7%	21.6%	8.3%	16.1%	4.1%	8.7%	6.9%	0.5%	15.6%	9.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.1.0

RESPONDENTS by SEX and HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
SEX	Bachelors	Masters	Doctorate	No Response	TOTAL	
Men	2,711	2,048	6,106	71	10,936	-Count
	24.8%	18.7%	55.8%	0.6%	100.0%	-% of Row
	79.6%	82.0%	90.5%	71.7%	85.8%	-% of Col
Women	653	423	561	9	1,646	
	39.7%	25.7%	34.1%	0.5%	100.0%	
	19.2%	16.9%	8.3%	9.1%	12.9%	
No Response	40	26	80	19	165	
	24.2%	15.8%	48.5%	11.5%	100.0%	
	1.2%	1.0%	1.2%	19.2%	1.3%	
TOTAL	3,404	2,497	6,747	99	12,747	
	26.7%	19.6%	52.9%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.0

RESPONDENTS by AGE and HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
AGE LEVEL	Bachelors	Masters	Doctorate	No Response	TOTAL	
20-24	271	16	5	2	294	-Count
	92.2%	5.4%	1.7%	0.7%	100.0%	-% of Row
	8.0%	0.6%	0.1%	2.0%	2.3%	-% of Col
25-29	641	283	405	4	1,333	
	48.1%	21.2%	30.4%	0.3%	100.0%	
	18.8%	11.3%	6.0%	4.0%	10.5%	
30-34	451	426	959	8	1,844	
	24.5%	23.1%	52.0%	0.4%	100.0%	
	13.2%	17.1%	14.2%	8.1%	14.5%	
35-39	340	367	1,141	8	1,856	
	18.3%	19.8%	61.5%	0.4%	100.0%	
	10.0%	14.7%	16.9%	8.1%	14.6%	
40-44	307	259	1,244	13	1,823	
	16.8%	14.2%	68.2%	0.7%	100.0%	
	9.0%	10.4%	18.4%	13.1%	14.3%	
45-49	267	247	836	16	1,366	
	19.5%	18.1%	61.2%	1.2%	100.0%	
	7.8%	9.9%	12.4%	16.2%	10.7%	
50-54	361	289	815	5	1,470	
	24.6%	19.7%	55.4%	0.3%	100.0%	
	10.6%	11.6%	12.1%	5.1%	11.5%	
55-59	395	327	651	15	1,388	
	28.5%	23.6%	46.9%	1.1%	100.0%	
	11.6%	13.1%	9.6%	15.2%	10.9%	
60-64	272	211	498	8	989	
	27.5%	21.3%	50.4%	0.8%	100.0%	
	8.0%	8.5%	7.4%	8.1%	7.8%	
65-69	70	51	151	3	275	
	25.5%	18.5%	54.9%	1.1%	100.0%	
	2.1%	2.0%	2.2%	3.0%	2.2%	
>=70	8	9	14	0	31	
	25.8%	29.0%	45.2%	0.0%	100.0%	
	0.2%	0.4%	0.2%	0.0%	0.2%	
No Response	21	12	28	17	78	
	26.9%	15.4%	35.9%	21.8%	100.0%	
	0.6%	0.5%	0.4%	17.2%	0.6%	
TOTAL	3,404	2,497	6,747	99	12,747	
	26.7%	19.6%	52.9%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.1

RESPONDENTS by AGE and HIGHEST DEGREE - MEN Only
1983 Survey of ACS Members

	HIGHEST DEGREE					
AGE LEVEL	Bachelors	Masters	Doctorate	No Response	TOTAL	
20-24	143	9	4	0	156	-Count
	91.7%	5.8%	2.6%	0.0%	100.0%	-% of Row
	5.3%	0.4%	0.1%	0.0%	1.4%	-% of Col
25-29	433	183	324	3	943	
	45.9%	19.4%	34.4%	0.3%	100.0%	
	16.0%	8.9%	5.3%	4.2%	8.6%	
30-34	360	339	829	6	1,534	
	23.5%	22.1%	54.0%	0.4%	100.0%	
	13.3%	16.6%	13.6%	8.5%	14.0%	
35-39	271	290	1,030	8	1,599	
	16.9%	18.1%	64.4%	0.5%	100.0%	
	10.0%	14.2%	16.9%	11.3%	14.6%	
40-44	245	214	1,140	12	1,611	
	15.2%	13.3%	70.8%	0.7%	100.0%	
	9.0%	10.4%	18.7%	16.9%	14.7%	
45-49	236	207	769	14	1,226	
	19.2%	16.9%	62.7%	1.1%	100.0%	
	8.7%	10.1%	12.6%	19.7%	11.2%	
50-54	322	258	766	4	1,350	
	23.9%	19.1%	56.7%	0.3%	100.0%	
	11.9%	12.6%	12.5%	5.6%	12.3%	
55-59	363	299	612	12	1,286	
	28.2%	23.3%	47.6%	0.9%	100.0%	
	13.4%	14.6%	10.0%	16.9%	11.8%	
60-64	256	192	465	8	921	
	27.8%	20.8%	50.5%	0.9%	100.0%	
	9.4%	9.4%	7.6%	11.3%	8.4%	
65-69	65	44	144	3	256	
	25.4%	17.2%	56.3%	1.2%	100.0%	
	2.4%	2.1%	2.4%	4.2%	2.3%	
>=70	5	8	5	0	18	
	27.8%	44.4%	27.8%	0.0%	100.0%	
	0.2%	0.4%	0.1%	0.0%	0.2%	
No Response	12	5	18	1	36	
	33.3%	13.9%	50.0%	2.8%	100.0%	
	0.4%	0.2%	0.3%	1.4%	0.3%	
TOTAL	2,711	2,048	6,106	71	10,936	
	24.8%	18.7%	55.8%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.2

RESPONDENTS by AGE and HIGHEST DEGREE - WOMEN Only
1983 Survey of ACS Members

	HIGHEST DEGREE					
AGE LEVEL	Bachelors	Masters	Doctorate	No Response	TOTAL	
20-24	127	7	1	2	137	-Count
	92.7%	5.1%	0.7%	1.5%	100.0%	-% of Row
	19.4%	1.7%	0.2%	22.2%	8.3%	-% of Col
25-29	206	97	79	1	383	
	53.8%	25.3%	20.6%	0.3%	100.0%	
	31.5%	22.9%	14.1%	11.1%	23.3%	
30-34	86	83	126	1	296	
	29.1%	28.0%	42.6%	0.3%	100.0%	
	13.2%	19.6%	22.5%	11.1%	18.0%	
35-39	67	74	99	0	240	
	27.9%	30.8%	41.3%	0.0%	100.0%	
	10.3%	17.5%	17.6%	0.0%	14.6%	
40-44	57	44	96	1	198	
	28.8%	22.2%	48.5%	0.5%	100.0%	
	8.7%	10.4%	17.1%	11.1%	12.0%	
45-49	28	40	56	1	125	
	22.4%	32.0%	44.8%	0.8%	100.0%	
	4.3%	9.5%	10.0%	11.1%	7.6%	
50-54	34	27	38	0	99	
	34.3%	27.3%	38.4%	0.0%	100.0%	
	5.2%	6.4%	6.8%	0.0%	6.0%	
55-59	29	26	32	3	90	
	32.2%	28.9%	35.6%	3.3%	100.0%	
	4.4%	6.1%	5.7%	33.3%	5.5%	
60-64	11	17	24	0	52	
	21.2%	32.7%	46.2%	0.0%	100.0%	
	1.7%	4.0%	4.3%	0.0%	3.2%	
65-69	5	7	4	0	16	
	31.3%	43.8%	25.0%	0.0%	100.0%	
	0.8%	1.7%	0.7%	0.0%	1.0%	
>=70	1	0	2	0	3	
	33.3%	0.0%	66.7%	0.0%	100.0%	
	0.2%	0.0%	0.4%	0.0%	0.2%	
No Response	2	1	4	0	7	
	28.6%	14.3%	57.1%	0.0%	100.0%	
	0.3%	0.2%	0.7%	0.0%	0.4%	
TOTAL	653	423	561	9	1,646	
	39.7%	25.7%	34.1%	0.5%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.3.0

RESPONDENTS by WORK SPECIALTY and HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
SPECIALTY	Bachelors	Masters	Doctorate	No Response	TOTAL	
Chemical Engineering	318	297	406	6	1,027	-Count
	31.0%	28.9%	39.5%	0.6%	100.0%	-% of Row
	9.3%	11.9%	6.0%	6.1%	8.1%	-% of Col
Biochemistry	79	73	704	7	863	
	9.2%	8.5%	81.6%	0.8%	100.0%	
	2.3%	2.9%	10.4%	7.1%	6.8%	
Agricultural/ Food Chemistry	137	71	234	7	449	
	30.5%	15.8%	52.1%	1.6%	100.0%	
	4.0%	2.8%	3.5%	7.1%	3.5%	
Analytical Chemistry	864	457	744	14	2,079	
	41.6%	22.0%	35.8%	0.7%	100.0%	
	25.4%	18.3%	11.0%	14.1%	16.3%	
Environmental Chemistry	237	154	237	6	634	
	37.4%	24.3%	37.4%	0.9%	100.0%	
	7.0%	6.2%	3.5%	6.1%	5.0%	
Organic Chemistry	278	223	1,175	9	1,685	
	16.5%	13.2%	69.7%	0.5%	100.0%	
	8.2%	8.9%	17.4%	9.1%	13.2%	
Inorganic Chemistry	133	103	426	4	666	
	20.0%	15.5%	64.0%	0.6%	100.0%	
	3.9%	4.1%	6.3%	4.0%	5.2%	
Pharmaceutical/ Medicinal/Clinical Chemistry	215	190	497	3	905	
	23.8%	21.0%	54.9%	0.3%	100.0%	
	6.3%	7.6%	7.4%	3.0%	7.1%	
Physical Chemistry	61	58	679	6	804	
	7.6%	7.2%	84.5%	0.7%	100.0%	
	1.8%	2.3%	10.1%	6.1%	6.3%	
Theoretical Chemistry	2	3	55	0	60	
	3.3%	5.0%	91.7%	0.0%	100.0%	
	0.1%	0.1%	0.8%	0.0%	0.5%	
Polymer/ Macromolecular Chemistry	356	234	662	6	1,258	
	28.3%	18.6%	52.6%	0.5%	100.0%	
	10.5%	9.4%	9.8%	6.1%	9.9%	
Other Chemical	330	256	332	7	925	
	35.7%	27.7%	35.9%	0.8%	100.0%	
	9.7%	10.3%	4.9%	7.1%	7.3%	
Non-Chemical	345	329	514	8	1,196	
	28.8%	27.5%	43.0%	0.7%	100.0%	
	10.1%	13.2%	7.6%	8.1%	9.4%	
No Response	49	49	82	16	196	
	25.0%	25.0%	41.8%	8.2%	100.0%	
	1.4%	2.0%	1.2%	16.2%	1.5%	
TOTAL	3,404	2,497	6,747	99	12,747	
	26.7%	19.6%	52.9%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.4.0

RESPONDENTS by MINORITY CLASSIFICATION and HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
RACE	Bachelors	Masters	Doctorate	No Response	TOTAL	
White	3,151	2,287	5,993	72	11,503	-Count
	27.4%	19.9%	52.1%	0.6%	100.0%	-% of Row
	92.6%	91.6%	88.8%	72.7%	90.2%	-% of Col
Black	60	39	70	0	169	
	35.5%	23.1%	41.4%	0.0%	100.0%	
	1.8%	1.6%	1.0%	0.0%	1.3%	
American Indian	13	1	10	0	24	
	54.2%	4.2%	41.7%	0.0%	100.0%	
	0.4%	0.0%	0.1%	0.0%	0.2%	
Asian/Pacific Islander	101	112	545	8	766	
	13.2%	14.6%	71.1%	1.0%	100.0%	
	3.0%	4.5%	8.1%	8.1%	6.0%	
Hispanic	33	28	54	1	116	
	28.4%	24.1%	46.6%	0.9%	100.0%	
	1.0%	1.1%	0.8%	1.0%	0.9%	
None of Above	24	16	22	0	62	
	38.7%	25.8%	35.5%	0.0%	100.0%	
	0.7%	0.6%	0.3%	0.0%	0.5%	
No Response	22	14	53	18	107	
	20.6%	13.1%	49.5%	16.8%	100.0%	
	0.6%	0.6%	0.8%	18.2%	0.8%	
TOTAL	3,404	2,497	6,747	99	12,747	
	26.7%	19.6%	52.9%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.5.0

RESPONDENTS by MINORITY CLASIFICATION and SEX
1983 Survey of ACS Members

	SEX				
RACE	Men	Women	No Response	TOTAL	
White	9,953	1,462	88	11,503	-Count
	86.5%	12.7%	0.8%	100.0%	-% of Row
	91.0%	88.8%	53.3%	90.2%	-% of Col
Black	120	39	10	169	
	71.0%	23.1%	5.9%	100.0%	
	1.1%	2.4%	6.1%	1.3%	
American Indian	17	1	6	24	
	70.8%	4.2%	25.0%	100.0%	
	0.2%	0.1%	3.6%	0.2%	
Asian/Pacific Islander	646	111	9	766	
	84.3%	14.5%	1.2%	100.0%	
	5.9%	6.7%	5.5%	6.0%	
Hispanic	88	20	8	116	
	75.9%	17.2%	6.9%	100.0%	
	0.8%	1.2%	4.8%	0.9%	
None of Above	50	9	3	62	
	80.6%	14.5%	4.8%	100.0%	
	0.5%	0.5%	1.8%	0.5%	
No Response	62	4	41	107	
	57.9%	3.7%	38.3%	100.0%	
	0.6%	0.2%	24.8%	0.8%	
TOTAL	10,936	1,646	165	12,747	
	85.8%	12.9%	1.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE-9.6.0

RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP
1983 Survey of ACS Members

	CITIZENSHIP					
RACE	U.S. Citizen	Permanent Resident	Other	No Response	TOTAL	
White	11,179	233	51	40	11,503	-Count
	97.2%	2.0%	0.4%	0.3%	100.0%	-% of Row
	92.5%	48.8%	48.6%	48.8%	90.2%	-% of Col
Black	150	17	1	1	169	
	88.8%	10.1%	0.6%	0.6%	100.0%	
	1.2%	3.6%	1.0%	1.2%	1.3%	
American Indian	21	2	1	0	24	
	87.5%	8.3%	4.2%	0.0%	100.0%	
	0.2%	0.4%	1.0%	0.0%	0.2%	
Asian/Pacific Islander	510	201	47	8	766	
	66.6%	26.2%	6.1%	1.0%	100.0%	
	4.2%	42.1%	44.8%	9.8%	6.0%	
Hispanic	96	15	5	0	116	
	82.8%	12.9%	4.3%	0.0%	100.0%	
	0.8%	3.1%	4.8%	0.0%	0.9%	
None of Above	56	6	0	0	62	
	90.3%	9.7%	0.0%	0.0%	100.0%	
	0.5%	1.3%	0.0%	0.0%	0.5%	
No Response	71	3	0	33	107	
	66.4%	2.8%	0.0%	30.8%	100.0%	
	0.6%	0.6%	0.0%	40.2%	0.8%	
TOTAL	12,083	477	105	82	12,747	
	94.8%	3.7%	0.8%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.7.0

RESPONDENTS by ACS LOCAL SECTION and WORK SPECIALTY
1983 Survey of ACS Members

SPECIALTY

LOCAL SECTION	Chem Eng	Biochem	Agric/Food Chem	Analy-tical	Environ-mental	Organic	In-organic	Pharm/ Med/Clin	Physical	Theoret-ical	Polymer/ Macro	Other Chem	Non-Chem	No Response	TOTAL	
Southern California	44 9.1% 4.3%	42 8.7% 4.9%	11 2.3% 2.4%	72 14.9% 3.5%	23 4.8% 3.6%	51 10.6% 3.0%	18 3.7% 2.7%	42 8.7% 4.6%	44 9.1% 5.5%	0 0.0% 0.0%	41 8.5% 3.3%	32 6.6% 3.5%	59 12.2% 4.9%	4 0.8% 2.0%	483 100.0% 3.8%	-Count -% of Row -% of Col
California	39 6.9% 3.8%	51 9.1% 5.9%	30 5.3% 6.7%	96 17.1% 4.6%	25 4.4% 3.9%	65 11.5% 3.9%	13 2.3% 2.0%	39 6.9% 4.3%	49 8.7% 6.1%	6 1.1% 10.0%	37 6.6% 2.9%	43 7.6% 4.6%	56 9.9% 4.7%	14 2.5% 7.1%	563 100.0% 4.4%	
Chicago	46 6.7% 4.5%	39 5.7% 4.5%	41 6.0% 9.1%	104 15.2% 5.0%	25 3.6% 3.9%	72 10.5% 4.3%	36 5.3% 5.4%	68 9.9% 7.5%	35 5.1% 4.4%	1 0.1% 1.7%	64 9.3% 5.1%	77 11.2% 8.3%	68 9.9% 5.7%	9 1.3% 4.6%	685 100.0% 5.4%	
Delaware	28 9.1% 2.7%	3 1.0% 0.3%	9 2.9% 2.0%	38 12.3% 1.8%	11 3.6% 1.7%	51 16.5% 3.0%	10 3.2% 1.5%	22 7.1% 2.4%	9 2.9% 1.1%	1 0.3% 1.7%	74 23.9% 5.9%	15 4.9% 1.6%	35 11.3% 2.9%	3 1.0% 1.5%	309 100.0% 2.4%	
New York	64 8.5% 6.2%	81 10.8% 9.4%	16 2.1% 3.6%	95 12.6% 4.6%	36 4.8% 5.7%	106 14.1% 6.3%	40 5.3% 6.0%	81 10.8% 9.0%	46 6.1% 5.7%	3 0.4% 5.0%	57 7.6% 4.5%	49 6.5% 5.3%	68 9.0% 5.7%	11 1.5% 5.6%	753 100.0% 5.9%	
North Jersey	75 8.3% 7.3%	30 3.3% 3.5%	23 2.5% 5.1%	146 16.1% 7.0%	18 2.0% 2.8%	153 16.8% 9.1%	34 3.7% 5.1%	125 13.8% 13.8%	46 5.1% 5.7%	5 0.6% 8.3%	95 10.5% 7.6%	70 7.7% 7.6%	81 8.9% 6.8%	8 0.9% 4.1%	909 100.0% 7.1%	
Northeastern	51 7.8% 5.0%	48 7.3% 5.6%	5 0.8% 1.1%	92 14.0% 4.4%	27 4.1% 4.3%	101 15.4% 6.0%	43 6.6% 6.5%	41 6.3% 4.5%	38 5.8% 4.7%	3 0.5% 5.0%	76 11.6% 6.0%	52 7.9% 5.6%	63 9.6% 5.3%	16 2.4% 8.2%	656 100.0% 5.1%	
Philadelphia	34 7.3% 3.3%	21 4.5% 2.4%	23 4.9% 5.1%	76 16.2% 3.7%	15 3.2% 2.4%	69 14.7% 4.1%	22 4.7% 3.3%	39 8.3% 4.3%	32 6.8% 4.0%	1 0.2% 1.7%	61 13.0% 4.8%	26 5.6% 2.8%	42 9.0% 3.5%	7 1.5% 3.6%	468 100.0% 3.7%	
Pittsburgh	31 12.1% 3.0%	11 4.3% 1.3%	1 0.4% 0.2%	46 17.9% 2.2%	14 5.4% 2.2%	35 13.6% 2.1%	10 3.9% 1.5%	3 1.2% 0.3%	22 8.6% 2.7%	1 0.4% 1.7%	40 15.6% 3.2%	14 5.4% 1.5%	27 10.5% 2.3%	2 0.8% 1.0%	257 100.0% 2.0%	
Southeast Texas	79 19.7% 7.7%	22 5.5% 2.5%	9 2.2% 2.0%	68 17.0% 3.3%	23 5.7% 3.6%	51 12.7% 3.0%	13 3.2% 2.0%	11 2.7% 1.2%	20 5.0% 2.5%	0 0.0% 0.0%	30 7.5% 2.4%	34 8.5% 3.7%	38 9.5% 3.2%	3 0.7% 1.[illegible]	401 100.0% 3.1%	
Washington, DC	20 4.4% 1.9%	60 13.1% 7.0%	26 5.7% 5.8%	51 11.1% 2.5%	35 7.6% 5.5%	39 8.5% 2.3%	11 2.4% 1.7%	31 6.8% 3.4%	42 9.2% 5.2%	1 0.2% 1.7%	25 5.4% 2.0%	26 5.7% 2.8%	83 18.1% 6.9%	9 2.0% 4.6%	459 100.0% 3.6%	
None of Above	484 7.5% 47.1%	424 6.6% 49.1%	243 3.8% 54.1%	1,143 17.8% 55.0%	374 5.8% 59.0%	860 13.4% 51.0%	398 6.2% 59.8%	380 5.9% 42.0%	403 6.3% 50.1%	36 0.6% 60.0%	610 9.5% 48.5%	467 7.3% 50.5%	546 8.5% 45.7%	67 1.0% 34.2%	6,435 100.0% 50.5%	
No Response	32 8.7% 3.1%	31 8.4% 3.6%	12 3.3% 2.7%	52 14.1% 2.5%	8 2.2% 1.3%	32 8.7% 1.9%	18 4.9% 2.7%	23 6.2% 2.5%	18 4.9% 2.2%	2 0.5% 3.3%	48 13.0% 3.8%	20 5.4% 2.2%	30 8.1% 2.5%	43 11.7% 21.9%	369 100.0% 2.9%	
TOTAL	1,027 8.1% 100.0%	863 6.8% 100.0%	449 3.5% 100.0%	2,079 16.3% 100.0%	634 5.0% 100.0%	1,685 13.2% 100.0%	666 5.2% 100.0%	905 7.1% 100.0%	804 6.3% 100.0%	60 0.5% 100.0%	1,258 9.9% 100.0%	925 7.3% 100.0%	1,196 9.4% 100.0%	196 1.5% 100.0%	12,747 100.0% 100.0%	

TABLE-9.8.0

RESPONDENTS by ACS LOCAL SECTION and EMPLOYMENT STATUS
1983 Survey of ACS Members

	EMPLOYMENT STATUS							
LOCAL SECTION	Post-doc.	Employed Full-time	Unemp. Seeking	Unemp. Not Seek.	Employed Part-time	No Response	TOTAL	
Southern California	14	411	19	13	8	18	483	-Count
	2.9%	85.1%	3.9%	2.7%	1.7%	3.7%	100.0%	-% of Row
	5.2%	3.7%	6.2%	7.3%	3.8%	3.3%	3.8%	-% of Col
California	19	470	13	11	12	38	563	
	3.4%	83.5%	2.3%	2.0%	2.1%	6.7%	100.0%	
	7.0%	4.2%	4.2%	6.2%	5.7%	6.9%	4.4%	
Chicago	8	614	15	8	13	27	685	
	1.2%	89.6%	2.2%	1.2%	1.9%	3.9%	100.0%	
	3.0%	5.5%	4.9%	4.5%	6.2%	4.9%	5.4%	
Delaware	2	280	4	3	3	17	309	
	0.6%	90.6%	1.3%	1.0%	1.0%	5.5%	100.0%	
	0.7%	2.5%	1.3%	1.7%	1.4%	3.1%	2.4%	
New York	23	650	18	11	16	35	753	
	3.1%	86.3%	2.4%	1.5%	2.1%	4.6%	100.0%	
	8.5%	5.8%	5.8%	6.2%	7.7%	6.4%	5.9%	
North Jersey	8	806	29	7	10	49	909	
	0.9%	88.7%	3.2%	0.8%	1.1%	5.4%	100.0%	
	3.0%	7.2%	9.4%	3.9%	4.8%	9.0%	7.1%	
Northeastern	39	558	10	6	17	26	656	
	5.9%	85.1%	1.5%	0.9%	2.6%	4.0%	100.0%	
	14.4%	5.0%	3.2%	3.4%	8.1%	4.8%	5.1%	
Philadelphia	9	419	10	10	5	15	468	
	1.9%	89.5%	2.1%	2.1%	1.1%	3.2%	100.0%	
	3.3%	3.7%	3.2%	5.6%	2.4%	2.7%	3.7%	
Pittsburgh	2	226	13	2	2	12	257	
	0.8%	87.9%	5.1%	0.8%	0.8%	4.7%	100.0%	
	0.7%	2.0%	4.2%	1.1%	1.0%	2.2%	2.0%	
Southeast Texas	12	353	8	3	4	21	401	
	3.0%	88.0%	2.0%	0.7%	1.0%	5.2%	100.0%	
	4.4%	3.1%	2.6%	1.7%	1.9%	3.8%	3.1%	
Washington, DC	17	380	9	4	20	29	459	
	3.7%	82.8%	2.0%	0.9%	4.4%	6.3%	100.0%	
	6.3%	3.4%	2.9%	2.2%	9.6%	5.3%	3.6%	
None of Above	108	5,769	146	96	92	224	6,435	
	1.7%	89.7%	2.3%	1.5%	1.4%	3.5%	100.0%	
	39.9%	51.4%	47.4%	53.9%	44.0%	41.0%	50.5%	
No Response	10	298	14	4	7	36	369	
	2.7%	80.8%	3.8%	1.1%	1.9%	9.8%	100.0%	
	3.7%	2.7%	4.5%	2.2%	3.3%	6.6%	2.9%	
TOTAL	271	11,234	308	178	209	547	12,747	
	2.1%	88.1%	2.4%	1.4%	1.6%	4.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.9.0

RESPONDENTS by ACS LOCAL SECTION and SEX
1983 Survey of ACS Members

	SEX				
LOCAL SECTION	Men	Women	No Response	TOTAL	
Southern California	412	67	4	483	-Count
	85.3%	13.9%	0.8%	100.0%	-% of Row
	3.8%	4.1%	2.4%	3.8%	-% of Col
California	464	88	11	563	
	82.4%	15.6%	2.0%	100.0%	
	4.2%	5.3%	6.7%	4.4%	
Chicago	580	102	3	685	
	84.7%	14.9%	0.4%	100.0%	
	5.3%	6.2%	1.8%	5.4%	
Delaware	279	28	2	309	
	90.3%	9.1%	0.6%	100.0%	
	2.6%	1.7%	1.2%	2.4%	
New York	613	132	8	753	
	81.4%	17.5%	1.1%	100.0%	
	5.6%	8.0%	4.8%	5.9%	
North Jersey	790	109	10	909	
	86.9%	12.0%	1.1%	100.0%	
	7.2%	6.6%	6.1%	7.1%	
Northeastern	555	95	6	656	
	84.6%	14.5%	0.9%	100.0%	
	5.1%	5.8%	3.6%	5.1%	
Philadelphia	397	69	2	468	
	84.8%	14.7%	0.4%	100.0%	
	3.6%	4.2%	1.2%	3.7%	
Pittsburgh	218	34	5	257	
	84.8%	13.2%	1.9%	100.0%	
	2.0%	2.1%	3.0%	2.0%	
Southeast Texas	360	40	1	401	
	89.8%	10.0%	0.2%	100.0%	
	3.3%	2.4%	0.6%	3.1%	
Washington, DC	356	96	7	459	
	77.6%	20.9%	1.5%	100.0%	
	3.3%	5.8%	4.2%	3.6%	
None of Above	5,641	746	48	6,435	
	87.7%	11.6%	0.7%	100.0%	
	51.6%	45.3%	29.1%	50.5%	
No Response	271	40	58	369	
	73.4%	10.8%	15.7%	100.0%	
	2.5%	2.4%	35.2%	2.9%	
TOTAL	10,936	1,646	165	12,747	
	85.8%	12.9%	1.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE-9.10.0

RESPONDENTS by ACS LOCAL SECTION and AGE
1983 Survey of ACS Members

	AGE LEVEL													
LOCAL SECTION	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70	No Respo	TOTAL	
Southern California	10	60	67	71	65	43	45	63	36	21	1	1	483	-Count
	2.1%	12.4%	13.9%	14.7%	13.5%	8.9%	9.3%	13.0%	7.5%	4.3%	0.2%	0.2%	100.0%	-% of Row
	3.4%	4.5%	3.6%	3.8%	3.6%	3.1%	3.1%	4.5%	3.6%	7.6%	3.2%	1.3%	3.8%	-% of Col
California	11	60	98	85	90	49	61	56	30	18	3	2	563	
	2.0%	10.7%	17.4%	15.1%	16.0%	8.7%	10.8%	9.9%	5.3%	3.2%	0.5%	0.4%	100.0%	
	3.7%	4.5%	5.3%	4.6%	4.9%	3.6%	4.1%	4.0%	3.0%	6.5%	9.7%	2.6%	4.4%	
Chicago	19	88	108	90	89	67	73	83	48	18	0	2	685	
	2.8%	12.8%	15.8%	13.1%	13.0%	9.8%	10.7%	12.1%	7.0%	2.6%	0.0%	0.3%	100.0%	
	6.5%	6.6%	5.9%	4.8%	4.9%	4.9%	5.0%	6.0%	4.9%	6.5%	0.0%	2.6%	5.4%	
Delaware	4	28	44	25	38	37	57	40	25	8	2	1	309	
	1.3%	9.1%	14.2%	8.1%	12.3%	12.0%	18.4%	12.9%	8.1%	2.6%	0.6%	0.3%	100.0%	
	1.4%	2.1%	2.4%	1.3%	2.1%	2.7%	3.9%	2.9%	2.5%	2.9%	6.5%	1.3%	2.4%	
New York	29	79	110	91	103	66	90	75	83	22	2	3	753	
	3.9%	10.5%	14.6%	12.1%	13.7%	8.8%	12.0%	10.0%	11.0%	2.9%	0.3%	0.4%	100.0%	
	9.9%	5.9%	6.0%	4.9%	5.7%	4.8%	6.1%	5.4%	8.4%	8.0%	6.5%	3.8%	5.9%	
North Jersey	19	85	137	133	118	107	109	106	71	21	1	2	909	
	2.1%	9.4%	15.1%	14.6%	13.0%	11.8%	12.0%	11.7%	7.8%	2.3%	0.1%	0.2%	100.0%	
	6.5%	6.4%	7.4%	7.2%	6.5%	7.8%	7.4%	7.6%	7.2%	7.6%	3.2%	2.6%	7.1%	
Northeastern	25	83	111	109	69	65	67	72	43	10	0	2	656	
	3.8%	12.7%	16.9%	16.6%	10.5%	9.9%	10.2%	11.0%	6.6%	1.5%	0.0%	0.3%	100.0%	
	8.5%	6.2%	6.0%	5.9%	3.8%	4.8%	4.6%	5.2%	4.3%	3.6%	0.0%	2.6%	5.1%	
Philadelphia	18	52	64	72	51	54	57	47	39	10	0	4	468	
	3.8%	11.1%	13.7%	15.4%	10.9%	11.5%	12.2%	10.0%	8.3%	2.1%	0.0%	0.9%	100.0%	
	6.1%	3.9%	3.5%	3.9%	2.8%	4.0%	3.9%	3.4%	3.9%	3.6%	0.0%	5.1%	3.7%	
Pittsburgh	10	30	35	41	29	26	30	30	21	4	1	0	257	
	3.9%	11.7%	13.6%	16.0%	11.3%	10.1%	11.7%	11.7%	8.2%	1.6%	0.4%	0.0%	100.0%	
	3.4%	2.3%	1.9%	2.2%	1.6%	1.9%	2.0%	2.2%	2.1%	1.5%	3.2%	0.0%	2.0%	
Southeast Texas	11	51	70	59	58	30	52	38	23	7	1	1	401	
	2.7%	12.7%	17.5%	14.7%	14.5%	7.5%	13.0%	9.5%	5.7%	1.7%	0.2%	0.2%	100.0%	
	3.7%	3.8%	3.8%	3.2%	3.2%	2.2%	3.5%	2.7%	2.3%	2.5%	3.2%	1.3%	3.1%	
Washington, DC	7	35	48	66	70	65	59	49	43	15	1	1	459	
	1.5%	7.6%	10.5%	14.4%	15.3%	14.2%	12.9%	10.7%	9.4%	3.3%	0.2%	0.2%	100.0%	
	2.4%	2.6%	2.6%	3.6%	3.8%	4.8%	4.0%	3.5%	4.3%	5.5%	3.2%	1.3%	3.6%	
None of Above	115	644	908	971	1,003	725	731	694	503	114	11	16	6,435	
	1.8%	10.0%	14.1%	15.1%	15.6%	11.3%	11.4%	10.8%	7.8%	1.8%	0.2%	0.2%	100.0%	
	39.1%	48.3%	49.2%	52.3%	55.0%	53.1%	49.7%	50.0%	50.9%	41.5%	35.5%	20.5%	50.5%	
No Response	16	38	44	43	40	32	39	35	24	7	8	43	369	
	4.3%	10.3%	11.9%	11.7%	10.8%	8.7%	10.6%	9.5%	6.5%	1.9%	2.2%	11.7%	100.0%	
	5.4%	2.9%	2.4%	2.3%	2.2%	2.3%	2.7%	2.5%	2.4%	2.5%	25.8%	55.1%	2.9%	
TOTAL	294	1,333	1,844	1,856	1,823	1,366	1,470	1,388	989	275	31	78	12,747	
	2.3%	10.5%	14.5%	14.6%	14.3%	10.7%	11.5%	10.9%	7.8%	2.2%	0.2%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.11.0

RESPONDENTS by ACS LOCAL SECTION and HIGHEST DEGREE
1983 Survey of ACS Members

	HIGHEST DEGREE					
LOCAL SECTION	Bachelors	Masters	Doctorate	No Response	TOTAL	
Southern California	143	97	238	5	483	-Count
	29.6%	20.1%	49.3%	1.0%	100.0%	-% of Row
	4.2%	3.9%	3.5%	5.1%	3.8%	-% of Col
California	146	103	308	6	563	
	25.9%	18.3%	54.7%	1.1%	100.0%	
	4.3%	4.1%	4.6%	6.1%	4.4%	
Chicago	229	176	278	2	685	
	33.4%	25.7%	40.6%	0.3%	100.0%	
	6.7%	7.0%	4.1%	2.0%	5.4%	
Delaware	41	30	238	0	309	
	13.3%	9.7%	77.0%	0.0%	100.0%	
	1.2%	1.2%	3.5%	0.0%	2.4%	
New York	176	173	399	5	753	
	23.4%	23.0%	53.0%	0.7%	100.0%	
	5.2%	6.9%	5.9%	5.1%	5.9%	
North Jesery	240	221	443	5	909	
	26.4%	24.3%	48.7%	0.6%	100.0%	
	7.1%	8.9%	6.6%	5.1%	7.1%	
Northeastern	172	138	342	4	656	
	26.2%	21.0%	52.1%	0.6%	100.0%	
	5.1%	5.5%	5.1%	4.0%	5.1%	
Philadelphia	147	86	227	8	468	
	31.4%	18.4%	48.5%	1.7%	100.0%	
	4.3%	3.4%	3.4%	8.1%	3.7%	
Pittsburgh	91	43	122	1	257	
	35.4%	16.7%	47.5%	0.4%	100.0%	
	2.7%	1.7%	1.8%	1.0%	2.0%	
Southeast Texas	113	84	203	1	401	
	28.2%	20.9%	50.6%	0.2%	100.0%	
	3.3%	3.4%	3.0%	1.0%	3.1%	
Washington, DC	96	76	283	4	459	
	20.9%	16.6%	61.7%	0.9%	100.0%	
	2.8%	3.0%	4.2%	4.0%	3.6%	
None of Above	1,715	1,206	3,474	40	6,435	
	26.7%	18.7%	54.0%	0.6%	100.0%	
	50.4%	48.3%	51.5%	40.4%	50.5%	
No Response	95	64	192	18	369	
	25.7%	17.3%	52.0%	4.9%	100.0%	
	2.8%	2.6%	2.8%	18.2%	2.9%	
TOTAL	3,404	2,497	6,747	99	12,747	
	26.7%	19.6%	52.9%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-10.1.0

POSTDOCTORAL RESPONDENTS by AGE and YEARS SINCE B.S.
1983 Survey of ACS Members

YEARS SINCE BS

AGE LEVEL	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40	No Respo	TOTAL	
20-24	0	3	0	0	0	0	0	0	0	0	1	4	-Count
	0.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	100.0%	-% of Row
	***.*%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	1.5%	-% of Col
25-29	0	5	94	2	0	0	0	0	0	0	11	112	
	0.0%	4.5%	83.9%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.8%	100.0%	
	***.*%	55.6%	71.2%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	41.3%	
30-34	0	0	37	38	0	0	0	0	0	0	16	91	
	0.0%	0.0%	40.7%	41.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.6%	100.0%	
	***.*%	0.0%	28.0%	65.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.4%	33.6%	
35-39	0	1	1	16	14	0	0	0	0	0	3	35	
	0.0%	2.9%	2.9%	45.7%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%	100.0%	
	***.*%	11.1%	0.8%	27.6%	70.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	12.9%	
40-44	0	0	0	2	6	5	1	0	0	0	3	17	
	0.0%	0.0%	0.0%	11.8%	35.3%	29.4%	5.9%	0.0%	0.0%	0.0%	17.6%	100.0%	
	***.*%	0.0%	0.0%	3.4%	30.0%	100.0%	25.0%	0.0%	0.0%	0.0%	8.3%	6.3%	
45-49	0	0	0	0	0	0	3	0	0	0	1	4	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.0%	0.0%	0.0%	0.0%	25.0%	100.0%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	75.0%	0.0%	0.0%	0.0%	2.8%	1.5%	
50-54	0	0	0	0	0	0	0	3	0	0	1	4	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.0%	0.0%	0.0%	2.8%	1.5%	
55-59	0	0	0	0	0	0	0	1	1	0	0	2	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	100.0%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	100.0%	0.0%	0.0%	0.7%	
60-64	0	0	0	0	0	0	0	0	0	1	0	1	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.4%	
65-69	0	0	0	0	0	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
>=70	0	0	0	0	0	0	0	1	0	0	0	1	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.4%	
TOTAL	0	9	132	58	20	5	4	5	1	1	36	271	
	0.0%	3.3%	48.7%	21.4%	7.4%	1.8%	1.5%	1.8%	0.4%	0.4%	13.3%	100.0%	
	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-10.2.0

POSTDOCTORAL RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP
1983 Survey of ACS Members

	RACE								
CITIZENSHIP	White	Black	American Indian	Asian/ Pacific	Hispanic	Other	No Response	TOTAL	
U.S. Citizen	188	2	0	11	1	2	0	204	-Count
	92.2%	1.0%	0.0%	5.4%	0.5%	1.0%	0.0%	100.0%	-% of Row
	87.9%	66.7%	***.*%	23.4%	25.0%	100.0%	0.0%	75.3%	-% of Col
Permanent Resident	6	1	0	15	1	0	1	24	
	25.0%	4.2%	0.0%	62.5%	4.2%	0.0%	4.2%	100.0%	
	2.8%	33.3%	***.*%	31.9%	25.0%	0.0%	100.0%	8.9%	
Other	19	0	0	21	2	0	0	42	
	45.2%	0.0%	0.0%	50.0%	4.8%	0.0%	0.0%	100.0%	
	8.9%	0.0%	***.*%	44.7%	50.0%	0.0%	0.0%	15.5%	
No Response	1	0	0	0	0	0	0	1	
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.4%	
TOTAL	214	3	0	47	4	2	1	271	
	79.0%	1.1%	0.0%	17.3%	1.5%	0.7%	0.4%	100.0%	
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-10.3.0

POSTDOCTORAL RESPONDENTS by ACADEMIC EMPLOYER and MINORITY CLASSIFICATION
1983 Survey of ACS Members

	RACE								
SCHOOL	White	Black	American Indian	Asian/ Pacific	Hispanic	Other	No Response	TOTAL	
Private Doctorate	79	1	0	15	1	1	1	98	-Count
	80.6%	1.0%	0.0%	15.3%	1.0%	1.0%	1.0%	100.0%	-% of Row
	46.7%	33.3%	***.*%	41.7%	25.0%	100.0%	100.0%	45.8%	-% of Col
Private Masters	1	0	0	0	0	0	0	1	
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	0.6%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.5%	
Private Bachelors	2	0	0	0	0	0	0	2	
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	1.2%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.9%	
Private Associate	0	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	
Public Doctorate	83	2	0	20	3	0	0	108	
	76.9%	1.9%	0.0%	18.5%	2.8%	0.0%	0.0%	100.0%	
	49.1%	66.7%	***.*%	55.6%	75.0%	0.0%	0.0%	50.5%	
Public Masters	2	0	0	1	0	0	0	3	
	66.7%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	100.0%	
	1.2%	0.0%	***.*%	2.8%	0.0%	0.0%	0.0%	1.4%	
Public Bachelors	0	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	
Public Associate	2	0	0	0	0	0	0	2	
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	1.2%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.9%	
TOTAL	169	3	0	36	4	1	1	214	
	79.0%	1.4%	0.0%	16.8%	1.9%	0.5%	0.5%	100.0%	
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%	

American Chemical Society

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4534

JOHN K CRUM
Executive Director

February 18, 1983

Dear Member:

The American Chemical Society annually reports on the economic status of the chemical profession as reflected in a sample survey of its U S. membership.

You are one of about 22,000 randomly selected members being asked to participate in this survey, which is conducted under the aegis of the Council Committee on Economic Status. Because a high response rate is needed to assure accurate results, your participation will be an important service to our colleagues. Please take a few minutes now, while the survey is before you, to complete the a questionnaire and return it promptly in the enclosed business reply envelope. The procedure is confidential: the information you provide will be combined with returns from other members so that only aggregated data will be available. A summary of the findings will appear in Chemical and Engineering News later this spring.

This year at the request of the Board Committee on the Handicapped, the study will also gather information on physical handicaps.

Please feel free to use the back of the questionnaire for whatever comments or suggestions you might care to make.

Thank you for your assistance.

Sincerely yours,

John K Crum

John K Crum

AMERICAN CHEMICAL SOCIETY

1983 Comprehensive Salary and Employment Status Survey

A. Please indicate the year in which you earned any of the following degrees:

Bachelors 19____ Masters 19____ Doctorate 19____

B. Field of highest degree:

Chemical engineering . . . . 1[ ]
Biochemistry . . . . 2[ ]
General chemistry . . . . 3[ ]
Analytical chemistry . . . . 4[ ]
Inorganic chemistry . . . . 5[ ]
Organic chemistry. . . . . 6[ ]
Polymer/macromolecular chemistry . 7[ ]
Pharmaceutical/medicinal/
clinical chemistry . . . . 8[ ]
Theoretical chemistry . . . . 9[ ]
Agricultural/food chemistry. . . . . .10[ ]
Physical chemistry . . . . 11[ ]
Other chemical (specify) __________ 12[ ]
Non-chemical (specify) ____________ 13[ ]

C. Employment status (Please check the ONE response that most aptly describes your status on March 1, 1983):

Postdoctoral or other fellowship . 1[ ]
Employed full-time . . . . 2[ ]
Not employed full-time
and seeking employment . . . . . 3[ ]
and not seeking employment . . . 4[ ]
Employed part-time . . . . 5[ ]

→Principal ANNUAL SALARY on March 1, 1983.
(Do not include payments for second job overtime work, summer teaching, or other supplemental employment)

$ __________ per year

D. If you were unemployed on March 1, how long had you been unemployed? ____ months

E. Check the ONE specialty most closely related to your present (or most recent) principal employment:

Chemical Engineering . . . . 1[ ]
Biochemistry . . . . 2[ ]
Agricultural/food chemistry . . . 3[ ]
Analytical chemistry . . . . 4[ ]
Environmental chemistry. . . . . . 5[ ]
Organic chemistry. . . . . 6[ ]
Inorganic chemistry. . . . . 7[ ]
Pharmaceutical/medicinal/
clinical chemistry . . . . 8[ ]
Physical chemistry . . . . 9[ ]
Theoretical chemistry . . . . 10[ ]
Polymer/macromolecular chemistry . . 11[ ]
Other chemical specialty . . . . . . 12[ ]
Non-chemical specialty . . . . 13[ ]

F. Citizenship or visa status:

U. S. citizen . . . . 1[ ]
U. S. permanent resident visa . . 2[ ]
Other . . . . 3[ ]

G. Racial or ethnic group:

White (not of Hispanic origin). . . . . 1[ ]
Black (not of Hispanic origin). . . . . 2[ ]
American Indian or Alaskan Native . . . . 3[ ]
Asian or Pacific Islander (Chinese, Japanese,
Korean, Filipino, Subcontinental Indian) . . . . 4[ ]
Hispanic (Mexican, Puerto Rican, Cuban, Spanish). . . . . . 5[ ]
None of the above . . . . 6[ ]

H. Sex: Male 1[ ] Female 2[ ]

I. Age at last birthday before March 1, 1983: ____

J. State of residence: ________________

K. Please indicate your ACS local section:

Southern California . 1[ ]
California. . . . . . 2[ ]
Chicago . . . . 3[ ]
Delaware . . . . . . 4[ ]
New York . . . . . . 5[ ]
North Jersey . . . . 6[ ]
Northeastern . . . . 7[ ]
Philadelphia . . . . 8[ ]
Pittsburgh . . . . . 9[ ]
Southeastern Texas .10[ ]
Washington (DC). . .11[ ]
None of the above. .12[ ]

IF YOUR CURRENT (OR MOST RECENT) PRINCIPAL EMPLOYER IS AN ACADEMIC INSTITUTION, PLEASE SKIP TO QUESTION O.

L. Current (or most recent) principal employer:

Private Industry	
Manufacturing	
Chemicals	1[ ]
Coatings	2[ ]
Food	3[ ]
Metals, minerals	4[ ]
Paper	5[ ]
Petroleum	6[ ]
Pharmaceuticals, personal care	7[ ]
Rubber	8[ ]
Other manufactures	9[ ]
Non-manufacturing	10[ ]
Government	
Federal (including military)	11[ ]
State or local	12[ ]
Hospital, independent laboratory	13[ ]
Other non-profit organization, other research institution	14[ ]
Self-employed	15[ ]
Other employment	16[ ]

M. Work function (Please check only one.):

Research and Development	
Management or administration of R&D	1[ ]
Basic research	2[ ]
Applied research, Development, Design	3[ ]
General management, administration (other than research and development)	4[ ]
Marketing, Sales, Purchasing, Technical Service, Economic evaluation	5[ ]
Production, Quality control	6[ ]
Forensic analysis, Other laboratory analysis	7[ ]
Writing, Editing, Abstracting, Library services	8[ ]
Data processing	9[ ]
Consulting	10[ ]
Other	11[ ]

N. Number of subordinates reporting to you directly or through others (If none, please write "0".):

Professionals _______ Technicians _______ Others _______

PLEASE SKIP TO QUESTION Q.

O. Current or most recent principal employer:

Private college or university where the highest degree offered in chemical science is:

Doctorate	1[ ]
Masters	2[ ]
Bachelors	3[ ]
Associate	4[ ]

Public college or university where the highest degree offered in chemical science is:

Doctorate	5[ ]
Masters	6[ ]
Bachelors	7[ ]
Associate	8[ ]

High School or other school	9[ ]

P. Rank:

Professor	1[ ]
Associate professor	2[ ]
Assistant professor	3[ ]
Instructor or lecturer	4[ ]
Non-faculty	5[ ]
Unranked faculty member	6[ ]

Q. Do you have a physical handicap?

No 1[ ] ⟶ Please stop.
Yes 2[ ] ⟶ What is the nature of your handicap? Mark all that apply:

Visual	1[ ]
Hearing	2[ ]
Mobility	3[ ]
Other	4[ ]

How much does this handicap limit your professional activities?

Not at all	1[ ]
Slightly	2[ ]
Moderately	3[ ]
Severely	4[ ]

Please return this form promptly to the American Chemical Society
Room 202, 1155 Sixteenth Street, N. W., Washington, D. C. 20036.

ACS OFFICE OF MANPOWER STUDIES PUBLICATIONS

Salaries: The Office of Manpower Studies annually surveys the ACS membership, gathering detailed information on member chemists and chemical engineers. The reports based on this survey contain statistical tables describing the respondents' employment status, employers, work function and specialty, salaries, and geographic and other demographic characteristics.

Reports are available for each year from 1973 through 1983.

Starting Salaries: The Office of Manpower Studies also surveys new graduates in chemistry and chemical engineering each year, and publishes reports detailing the graduates' employment status, post-graduation plans, starting salaries, and other employment and demographic characteristics.

Reports are available for each year from 1975 through 1982.

Professionals in Chemistry: The Professionals in Chemistry series compiles information concerning chemists and chemical engineers from ACS, government, and private industry sources. It details information on demography, employment, salaries, education, and supply and demand for the entire chemical profession.

Reports for each year from 1975 through 1978, and combined reports for 1979-1980, 1980-81, and 1981-82 are available.

Special Reports:

1975 Report of Chemists' Salaries and Employment Status Supplement: Economic Status of Women in the ACS.

Women Chemists 1980: A supplemental report on the ACS's 1980 Survey of Salaries and Employment.

For prices and ordering information, please call or write:

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